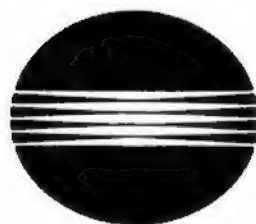


# Service Manual

**XG-M**

**(CODE NO. 2019)**



**MINOLTA**

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2019-0132-----	2	2019-0290-----	1	2009-0510-----	7
2019-0134-----	2	2019-0292-----	16	2006-0521-----	11
2006-0140-----	2	2019-0293-----	16	2006-0522-----	10
2019-0151-----	9	2019-0294-----	16	2006-0523-----	10
2006-0152-----	9	2019-0302-----	13, 15	2019-0524-----	10
2006-0153-----	9	2019-0310-----	14	2006-0527-----	9
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2006-0209-----	18	2006-0338-----	13	2009-0532-----	10
2006-0211-----	18	2019-0340-----	14	2009-0538-----	6
2006-0215-----	17	2006-0350-----	14	2009-0542-----	10
2006-0218-----	17	2019-0360-----	14	2006-0558-----	11
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2019-0266-----	1	2019-0420-----	5	2009-0816-----	7
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2019-1007-----	1	2013-1068-----	2	2006-2012-----	16
2009-1008-----	9	2006-1069-----	2	2019-2015-----	16
2006-1009-----	1	2006-1074-----	6	2006-2017-----	16
2005-1010-----	6	2006-1105-----	15	2019-2018-----	1
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2006-2143-----	17	2006-2766-----	18	2006-3053-----	13
2006-2144-----	17	2006-2768-----	18	2006-3055-----	13
2006-2147-----	17	2006-2773-----	18	2006-3056-----	14
2006-2148-----	17	2006-2791-----	18	2006-3057-----	14
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		2006-3021-----	14		
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2006-2708-----	17	2006-3029-----	14	2006-3410-----	12
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2006-3421-----	13	2006-5014-----	7	2006-5107-----	10
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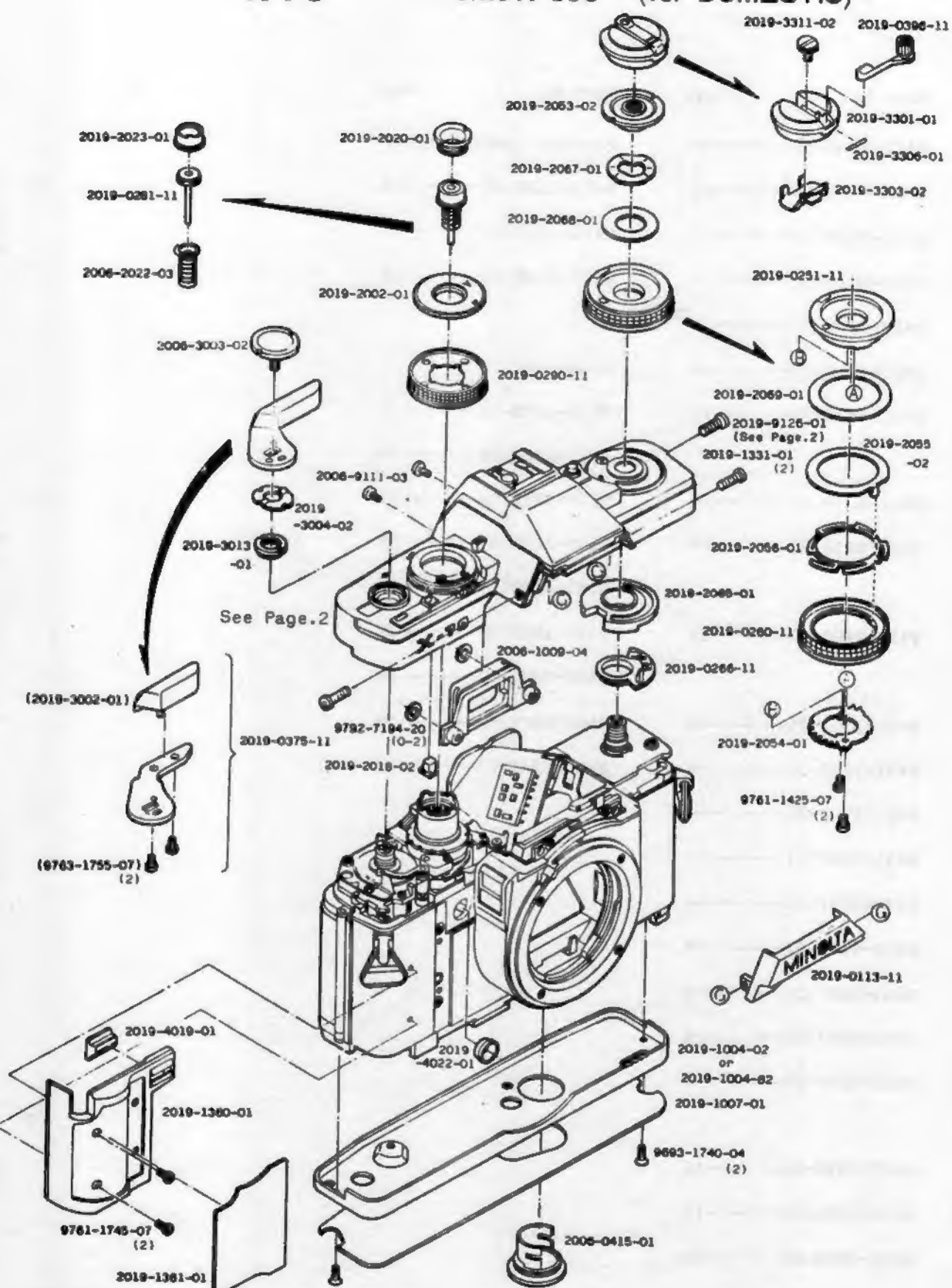
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2006-8411-----	19,20	2006-9131-----	5	9612-1675-07-----	16
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2019-8441-----	19	2013-9246-----	2	9613-1650-01-----	2
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2006-9103-----	9	9611-1625-07-----	6,8,9	9693-1740-04-----	1
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9762-2050-07-----	14	9794-3858-20-----	11	9422-1826-32-----	4
		9798-3155-87-----	2	9422-1826-62-----	19
9763-1755-07-----	1			9422-2036-32-----	19
9765-1730-07-----	4	L.E.D		9422-2046-32-----	19
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		9362-1633-02-----	19	9422-3016-62-----	19
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9792-7194-20-----	1	9422-1026-32-----	4	9422-3916-62-----	19
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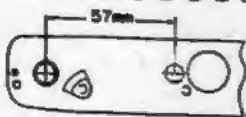


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9422-5616-32-----	4	9472-1539-63-----	19
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9422-8216-32-----	4	9511-3365-61-----	19
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9431-6847-31-----	4		
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9432-1558-62-----	19		
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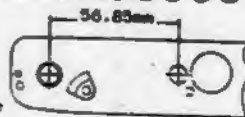
2019-1004-02



■ 新品は元々切替



■ The current bottom cover will be exchanged in order with new one.



2019-1004-82

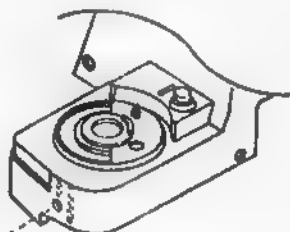
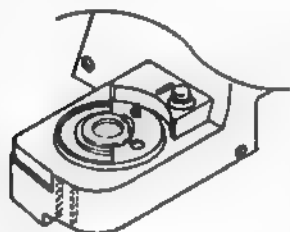
Part No.	Part Name		Qty.
2019-0113-11	Front top cover set	正面上部カバーセット	1
2019-0251-11	ASA cover plate set	ASA カバー板セット	1
2019-0260-11	ASA operation knob set	ASA 操作ノブセット	1
2019-0266-11	ASA contact holder set	ASA 接片ホルダーセット	1
2019-0281-11	Shutter release button set	シャッター銅軸セット	1
2019-0290-11	Shutter speed dial/Function selector	シャッターダイヤルセット	1
2019-0375-11	Film advance lever set	巻上レバーセット	1
(2019-3002-01)	Film advance lever knob	巻上レバー指当て	1
(9763-1755-07)	Tap tite screw	十字穴付半丸皿頭タップタイトねじ	2
2019-0396-11	Rewinding handle set	巻戻しハンドルセット	1
2006-0415-01	Battery holder set	電池ケース蓋	1
2019-1004-02	Bottom cover or Sheet	下カバー	1
2019-1004-82		下カバー用保護シート	1
2019-1007-01			
2006-1009-04	Eye-piece frame	接眼枠	1
2019-1331-01	Screw	止めビス	2
2019-1360-01	Grip	グリップ	1
2019-1361-01	Grip leather	グリップ貼皮	1
2019-2002-01	Shutter speed dial	スピードダイヤル銘板	1
2019-2018-02	Auto lock button	オートロック銅	1
2019-2020-01	Shutter release button pressure	シャッター銅押え	1
2006-2022-03	Shutter release button spring	シャッター銅スプリング	1
2019-2023-01	Shutter release button cap	シャッター銅キャップ	1
2019-2053-02	ASA dial nut	ASA 押えナット	1
2019-2054-01	ASA click plate	ASA クリック板	1
2019-2055-02	ASA dial	ASA 銘板	1
2019-2056-01	ASA spring	ASAスプリング	1
2019-2065-01	ASA contact holder guide	ASA 接片ホルダーガイド	1
2019-2067-01	Pressure spring	ASA操作リング押えパネ	1
2019-2068-01	Operation knob sheet	ASA操作リングシート	0-1
2019-2069-01	ASA dial sheet	ASA 銘板シート	1
2006-3003-02	Winding lever pressure	巻上レバー押え	1
2019-3004-02	Winding lever friction	巻上レバーフリクション	1
2019-3013-01	Top cover nut	上カバー止めナット	1
2019-3301-01	Rewindig knob	巻戻しノブ	1
2019-3303-02	Rewindin handle spring	巻戻しパネ	1
2019-3306-01	Rewinding handle axis	巻戻しハンドル軸	1
2019-3311-02	Rewinding knob screw	巻戻しノブビス	1
2019-4019-01	Self-timer window	セルフ表示窓	1
2019-4022-01	Reflection ring	セルフ表示反射環	1
2006-9111-03	Screw	特殊止めビス	2
2019-9126-01	Screw	特殊止めビス	1
9693-1740-04	Phillips type tapping screw	十字穴付半丸皿頭タッピングねじ	2
9761-1425-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9761-1745-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9792-7194-20	Tap tite screw	薄ワッシャー	0-2

or  
2019-0130-25

(for XG-M)

2019-0130-11

2019-0130-25

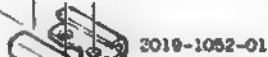


- 2019-9126- and 2019-1111-01 (Refer to P.15) should be used on the top cover (0130-25) with a screw-hole.
- ビス穴のある上カバー (0130-25) には2019-9126-01, 2019-1111-01 (P. 15参照) を使用して下さい。

2019-1351-01



9613-1650-01 (4)



2019-1052-01

2006-8245-04

2013-9246-01

2006-1062-02

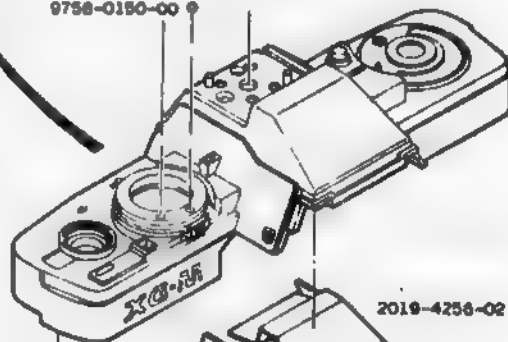
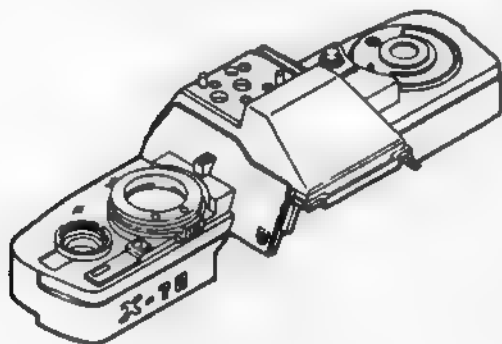


2019-0132-11

9611-1618-07

2019-2070-03

9758-0150-00



2019-4256-02

2019-1018-01



2006-1054-03

2006-1068-01

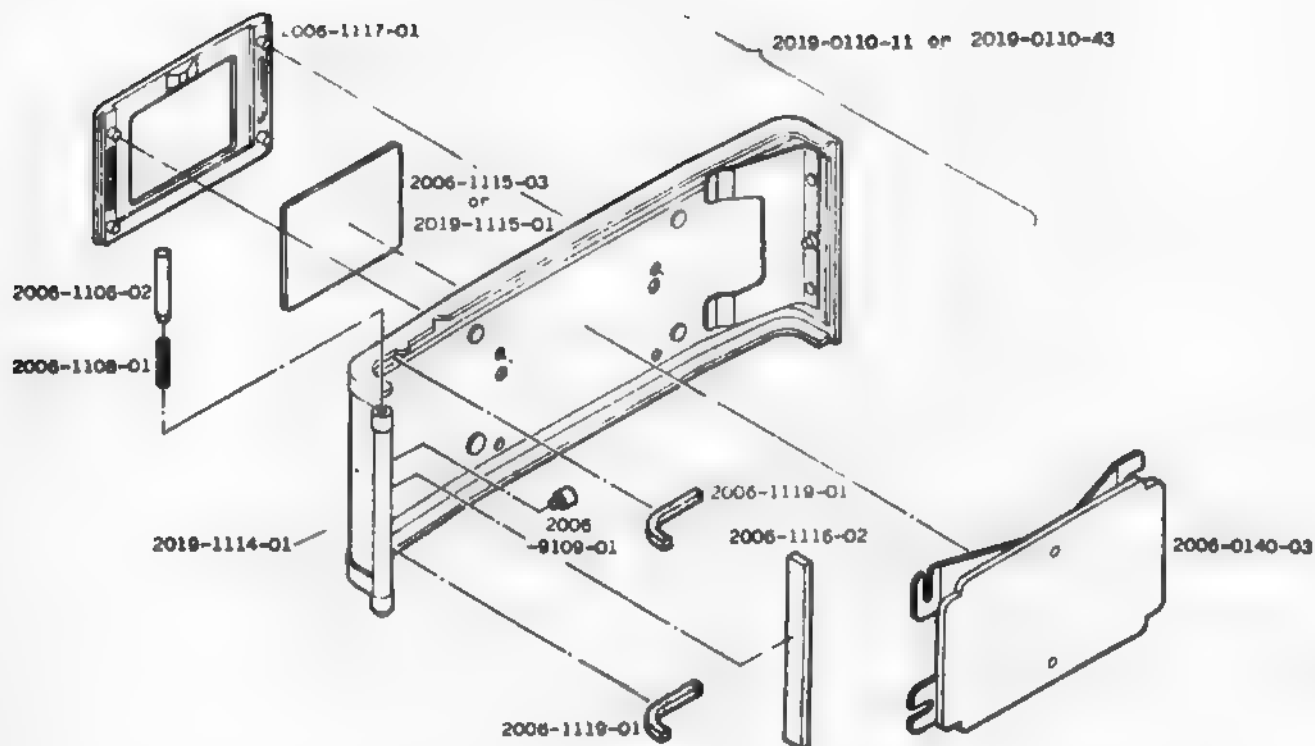
2013-1088-01

9758-3155-87

2006-1061-02

2006-9112-02

Part No.	Part Name		Qty
2019-0130-11 2019-0130-25 <sup>or</sup>	Top cover set(for XG-M)	上カバーセット	1
2019-0134-11	Top cover set (for X-70)	上カバーセット	1
2019-0132-11	Accessory shoe base set	アクセサリーシュー座	1
2019-1018-01	Counter window	カウンター窓	1
2019-1052-01	Accessory shoe	アクセサリーシュー	1
2006-1054-03	Accessory shoe set plate	アクセサリーシュー取付板	1
2006-1061-02	Contact-D	コンタクト接片D	1
2006-1062-02	Counter operation pin	コンタクト接片連動ピン	1
2013-1068-01	Contact-E	コンタクト接片E	1
2006-1069-02	Contact isolation sheet	コンタクト接片絶縁シート	1
2019-1315-01	Accessory shoe spring	アクセサリーシューバネ	1
2019-2070-03	Click spring	メインSWクリックバネ	1
2019-4256-02	Top cover isolation sheet	上カバー絶縁シート	1
2006-9112-02	Screw	止めビス	1
2006-9245-04	Contact-A	コンタクト接点A	1
2006-9246-02	Contact-B	コンタクト接点B	1
9611-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9613-1650-01	Phillips type screw	十字穴付半丸皿頭小ねじ	4
9758-0150-00	Steel ball	スチールボール	1
9798-3155-87	Washer	薄ワッシャー	1



(2019-0110-11)

2006-1115-03

DIN	ASA	24	200
12	12	27	400
15	25	30	600
18	50	33	1600
21	100	36	3200

MINOLTA CAMERA CO. LTD  
JAPAN

(for XG-M)

(2019-0110-43)

2019-1115-01

ISO	24	200
(DIN · ASA)	27	400
12	30	800
15	33	1600
18	36	3200
21	38	6400

MINOLTA CAMERA CO. LTD  
JAPAN

(for XG-M & X-70)

■ Changed item.....ASA indication has changed to ISO.

■ The current parts will be exchanged in order with new ones for XG-M.

■ 変更内容.....ASA表示からISO表示に変更

■ XG-Mは順次新部品に切替

Part No.	Part Name	Qty.
2019-0110-11 or 2019-0110-43	Back cover set	1
2006-1106-02	Hinge axis-A	1
2006-1108-01	Hinge spring	1
2019-1114-01	Back leather	1
2006-1115-03 or 2019-1115-01	Conversion scale	1
2006-1116-02	Light shield sponge	1
2006-1117-01	Memo halder	1
2006-1119-01	Light shield sponge-B	2
2006-9109-01	Screw	1
2006-0140-03	Pressure plate set	1
	裏蓋セット	
	ヒンジ軸A	
	ヒンジスプリング	
	裏蓋貼皮	
	ASA. DIN換算板	
	裏蓋遮光片	
	裏蓋ポケット	
	裏蓋遮光片B	
	止めビス	
	圧着板セット	

9765-1730-07  
※ 9765-2030-07

9762-1740-02

9762-1743-02

9612-1685-07

See Page.16

9695-1740-02  
(2)

2006-0881-05

2006-5006-03

2006-5006-02

2006-0598-02

2006-1019-03

2019-1016-02

2019-1015-01

See Page.19

9762-1730-07  
(2)

R1

R2

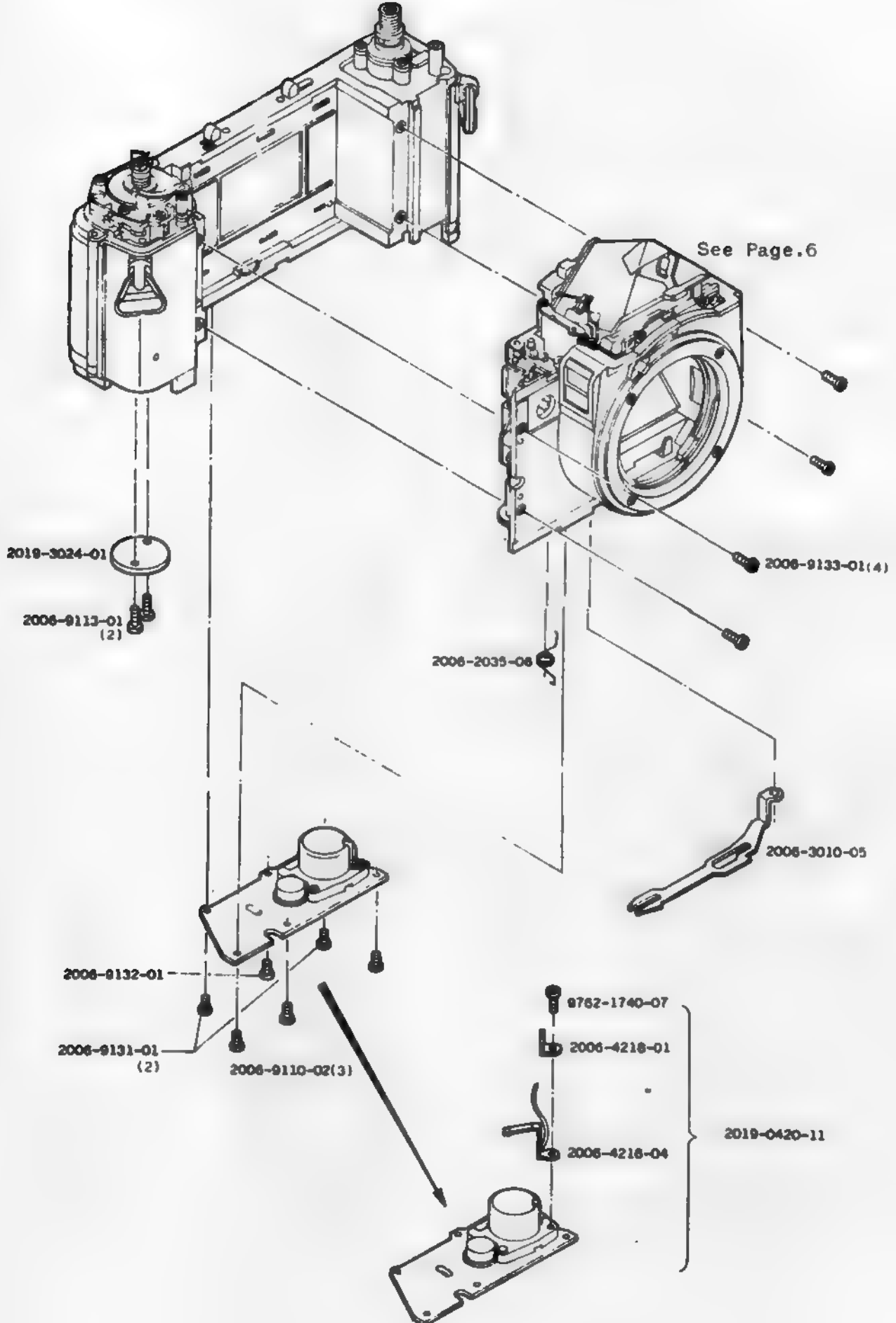
※ The screw for damaged hole

ねじ穴不良対策ビス

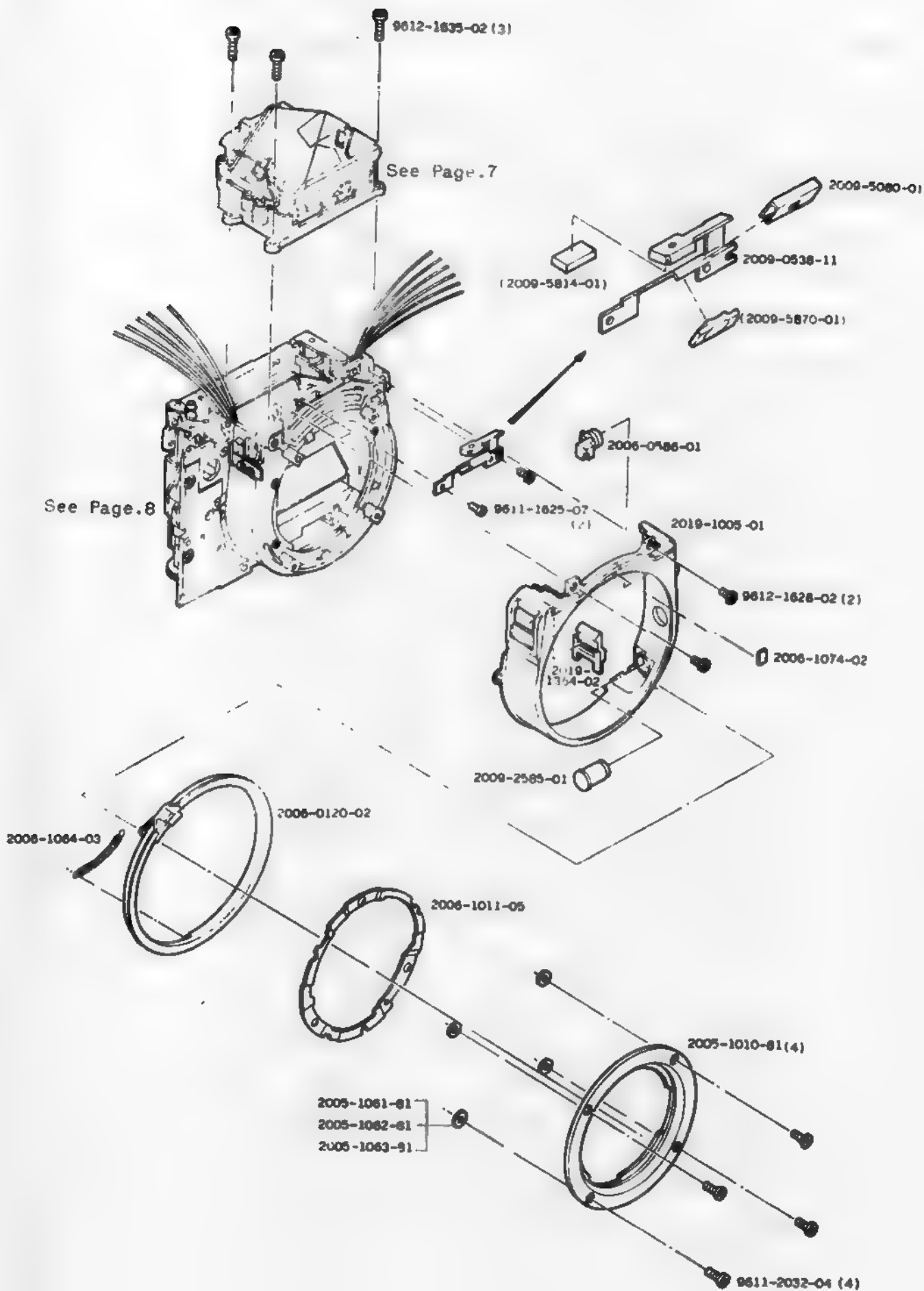


Part No.	Part. Name		
2006-0596-02	Cds circuit base plate set	Cds基板セット	
2006-0881-05	Eye-piece set	接眼レンズセット	
2019-1015-01	Right side leather	ボデー貼皮 (右)	
2019-1016-02	Left side leather	ボデー貼皮 (左)	
2006-1019-03	Plate	ボデー貼板	
2006-5006-02	Eye-piece light shield plate	接眼レンズ遮光枠	
2006-5008-03	Eye-piece pressure	接眼レンズ押え	
9612-1685-07	Phillips type screw	十字穴付なべ頭小ねじ	
9695-1740-02	Phillips type tapping screw	十字穴付皿頭タッピングねじ	
9762-1730-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	
9762-1740-02	Tap tite screw	十字穴付なべ頭タップタイトねじ	
9762-1745-02	Tap tite screw	十字穴付なべ頭タップタイトねじ	
9765-1730-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	

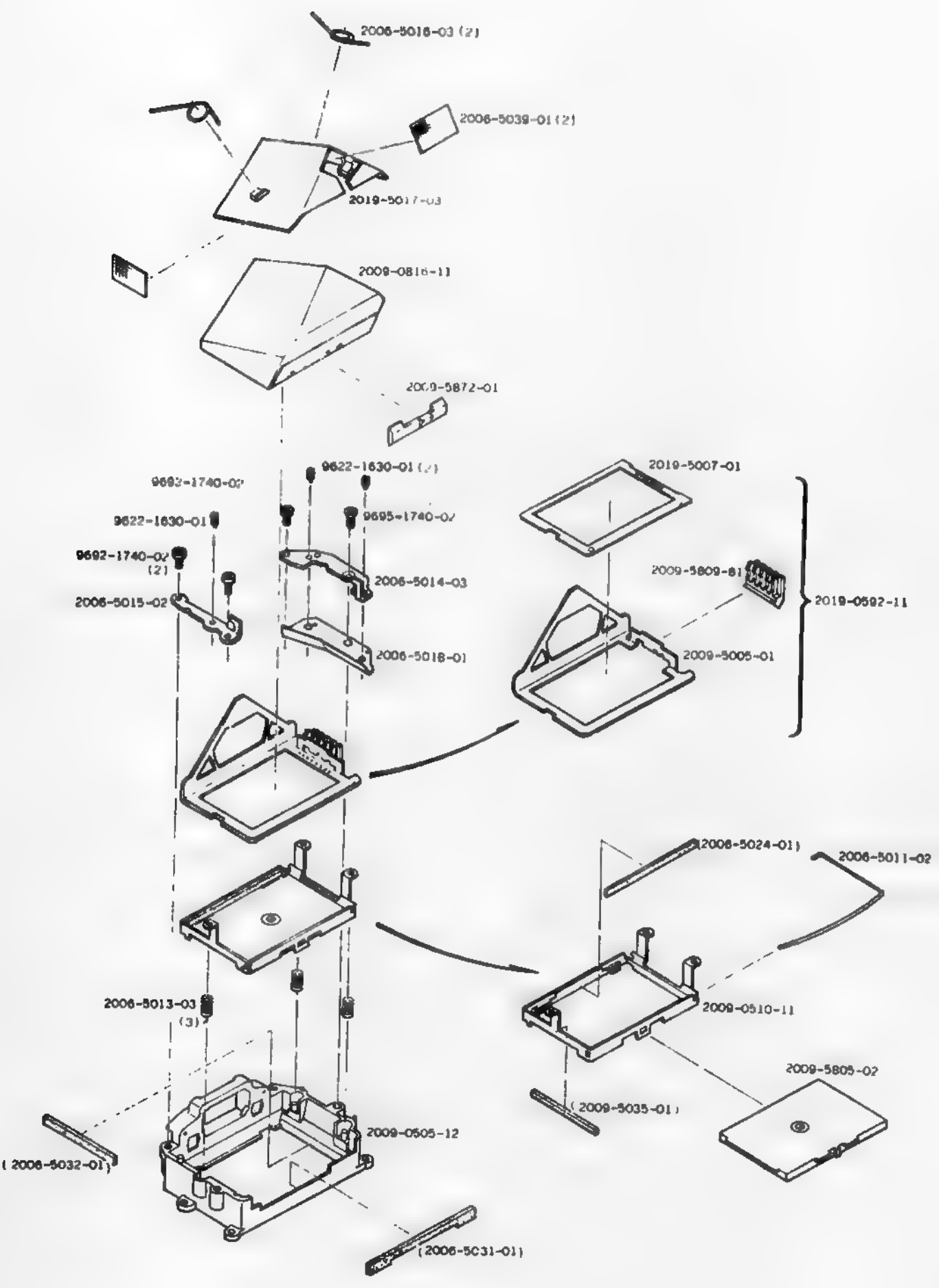
Symbol	Part No.	Com	Part Name	Type.	Qty.
R1	9431-3347-31		Fixed resistor	1/16W, 330K $\Omega$	
	9431-3947-31			1/16W, 390K $\Omega$	
	9431-4747-31			1/16W, 470K $\Omega$	
	9431-5647-31			1/16W, 560K $\Omega$	
	9431-6847-31			1/16W, 680K $\Omega$	> 1
	9431-8247-31			1/16W, 820K $\Omega$	
	9431-1057-31			1/16W, 1M $\Omega$	
	9431-1257-31			1/16W, 1.2M $\Omega$	
	9431-1557-31			1/16W, 1.5M $\Omega$	
R2	9422-2216-32			1/8W, 200 $\Omega$	
	9422-2716-32			1/8W, 270 $\Omega$	
	9422-3316-32			1/8W, 330 $\Omega$	
	9422-3916-32			1/8W, 390 $\Omega$	
	9422-4716-32			1/8W, 470 $\Omega$	
	9422-5616-32			1/8W, 560 $\Omega$	> 1
	9422-6816-32			1/8W, 680 $\Omega$	
	9422-8216-32			1/8W, 820 $\Omega$	
	9422-1026-32			1/8W, 1K $\Omega$	
	9422-1226-32			1/8W, 1.2K $\Omega$	
	9422-1526-32			1/8W, 1.5K $\Omega$	
	9422-1826-32			1/8W, 1.8K $\Omega$	



Part No.	Part Name	Qty.
2019-0420-11	Battery case base plate set	1
(2006-4216-04)	電池ケース基板	1
(2006-4216-04)	電池ケース接片 (+)	1
(2006-4218-01)	電池接片押え板	1
(9762-1740-07)	十字穴付なべ頭タップタイトねじ	1
2006-2035-06	Release operation lever spring 吸着用SP	1
2006-3010-05	Charge lever	1
2019-3024-01	チャージレバー	1
2006-9110-01	Winder coupler	3
2006-9113-02	ワインダーカプラー	2
2006-9113-01	止めビス	2
2006-9131-01	止めビス	2
2006-9132-01	止めビス	1
2006-9133-01	止めビス	4



Part No.	Part Name		Qty.
2006-0120-02	Aperture coupling ring set	連結リングセット	1
2009-0538-11	In-finder base plate set	絞りミラーホルダーセット	1
(2009-5814-01)	In-finder mirror	絞り表示平面鏡	1
(2009-5870-01)	In-finder lens	絞りインファインダーレンズ	1
2006-0586-01	Lens lock button set	レンズロック釦セット	1
2019-1005-01	Front cover	前カバー	1
2005-1010-81	Bayonet lens mount	バヨネット座板	1
2006-1011-05	Bayonet spring	バヨネットスプリング	1
2005-1061-81	Adjustment washer-A t=0.02	調整ワッシャーA	} Some 若干
2005-1062-81	Adjustment washer-B t=0.05	調整ワッシャーB	
2005-1063-81	Adjustmetn washer-C t=0.1	調整ワッシャーC	
2006-1064-03	Aperture coupling ring spring	連結リングスプリング	1
2006-1074-02	Front cover indication	前カバー指標	1
2019-1364-02	Self switch lever	セルフSWレバー	1
2009-2585-01	PV button	PV釦	1
2009-5080-01	In-finder mask	絞りインファインダーマスク	1
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9611-2032-04	Phillips type screw	十字穴付なべ頭小ねじ	4
9612-1628-02	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1635-02	Phillips type screw	十字穴付なべ頭小ねじ	3



Part No.	Part Name		Qty.
2009-0505-12	Penta. holder set	ペンターホルダーセット	1
(2006-5031-01)	Packing-A	防塵モルトブレンA	1
(2006-5032-01)	Packing-B	防塵モルトブレンB	1
2009-0510-11	Fresnel lens holder set	焦点板ホルダーセット	1
(2006-5024-01)	Packing-C	防塵モルトブレンC	1
(2009-5035-01)	Shield plate	防塵塩ビシート	1
2019-0592-11	Penta. receiver set	ペンタ受セット	1
(2009-5005-01)	Penta. receiver	ペンタ受	1
(2019-5007-01)	Scale plate	目盛板	1
(2009-5809-81)	L.E.D mirror	光路棒	1
2009-0816-11	Penta. prism set	ペンタプリズム	1
(2009-5872-01)	In-finder prism	絞りインファインダープリズム	1
2006-5011-02	Fresnel lens pressure spring	焦点板押えSP	1
2006-5013-03	Fresnel lens holder spring	焦点板ホルダーSP	3
2006-5014-03	Penta. pressure (Left side)	ペンタ押え (左)	1
2006-5015-02	Penta. pressure (Right side)	ペンタ押え (右)	1
2006-5016-03	Penta. spring	ペンタ押えSP	2
2019-5017-03	Penta. pressure	ペンタ押え板	1
2006-5018-01	L.E.D diffusion plate	LED拡散板	1
2006-5039-01	Tape (15mmX9mm)	ペンタ押え板接着テープ	2
2009-5805-02	Fresnel lens	焦点板	1
9622-1630-01	Screw	トガリ先止めねじ	3
9692-1740-02	Phillips type tapping screw	十字穴付なべ頭タッピングねじ	3
9695-1740-02	Phillips type tapping screw	十字穴付皿頭タッピングねじ	1



See Page.17,18

2006-9004-02

9613-1645-07

(LD13)  
9353-2642-01

(C3)  
9565-3338-32

See Page.10,11

9612-1626-07(2)

2019-0580-11

See Page.9

9612-1625-07(3)

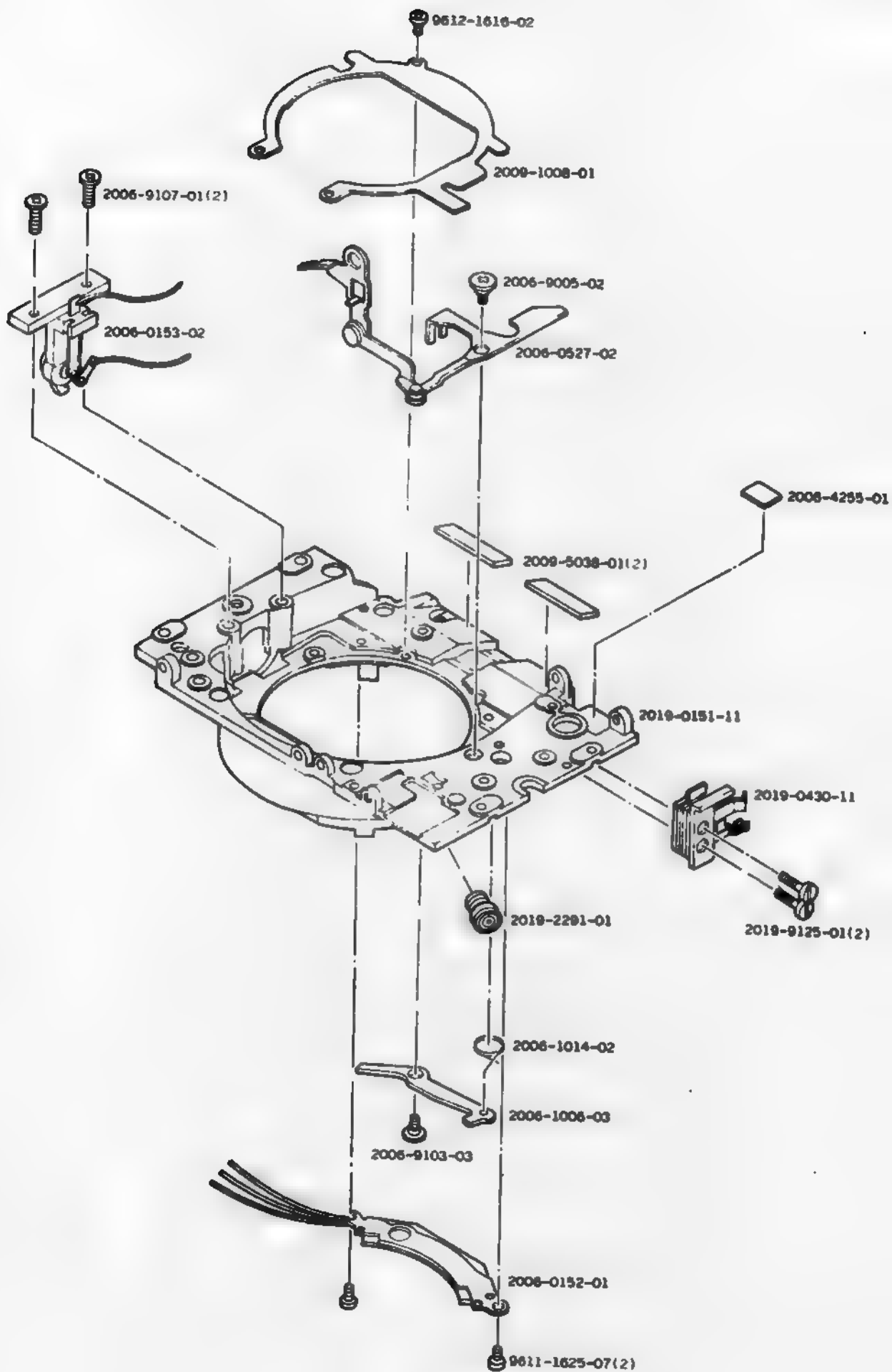
9611-1625-07(3)

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Part No.	Part Name	Qty.
2019-0580-11	Magnetic release base plate set	1
	レリーズマグネット台板	
2006-9004-02	Release operation lever A axis	1
	レリーズ連結レバーA軸	
9611-1625-07	Phillips type screw	3
	十字穴付なべ頭小ねじ	
9612-1625-07	Phillips type screw	3
	十字穴付なべ頭小ねじ	
9612-1628-07	Phillips type screw	2
	十字穴付なべ頭小ねじ	
9613-1645-07	Phillips type screw	1
	十字穴付半丸皿頭小ねじ	
9353-2642-01	L.E.D (TLR108)	1
	L.E.D (LD13)	
9565-3338-32	Condenser (C3; 50V/0.033 $\mu$ F CR426YSU)	1



Part No.	Part Name		Qty.
2019-0151-11	Front base plate set	前枠セット	1
2006-0152-01	Circuit base plate-B	回路基板B セット	1
2006-0153-02	Remote control base plate set	リモコン接片基板セット	1
2019-0430-11	Self-timer switch set	セルフSW セット	1
2006-0527-02	Release operation lever set	リリース連結レバーセット	1
2006-1006-03	Lens lock lever	レンズロックレバー	1
2009-1008-01	Mirror box light shield plate	ミラーボックス遮光板	1
2006-1014-02	Lock lever spring	ロックレバーSP	1
2019-2291-01	Synchro terminal	シンクロターミナル	1
2006-4255-01	Tape A (3.8X8)	テープ A	1
2009-5038-01	Penta. front packing	ペンタ前面押えクッション	2
2006-9005-02	Screw	止めねじ	1
2006-9103-03	Lens lock axis	レンズロック軸	1
2006-9107-01	Screw	止めねじ	2
2019-9125-01	Screw	セルフSW止めねじ	2
9611-1625-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1616-02	Phillips type screw	十字穴付なべ頭小ねじ	1

2009-0532-11

9721-0150-13 (2)

2009-5051-01

9721-0150-13

9792-2050-40

2019-0531-11

2006-5044-04

2019-0524-11

2006-5042-04

9792-2140-40

9793-2140-40

9721-0150-13

2009-5058-81

2009-0542-81

2006-0523-02

9721-0150-13

2009-5073-02

2006-5046-01

2006-0522-03

2009-5074-02  
(2)

2009-5015-03

9793-1640-40

2009-0572-11

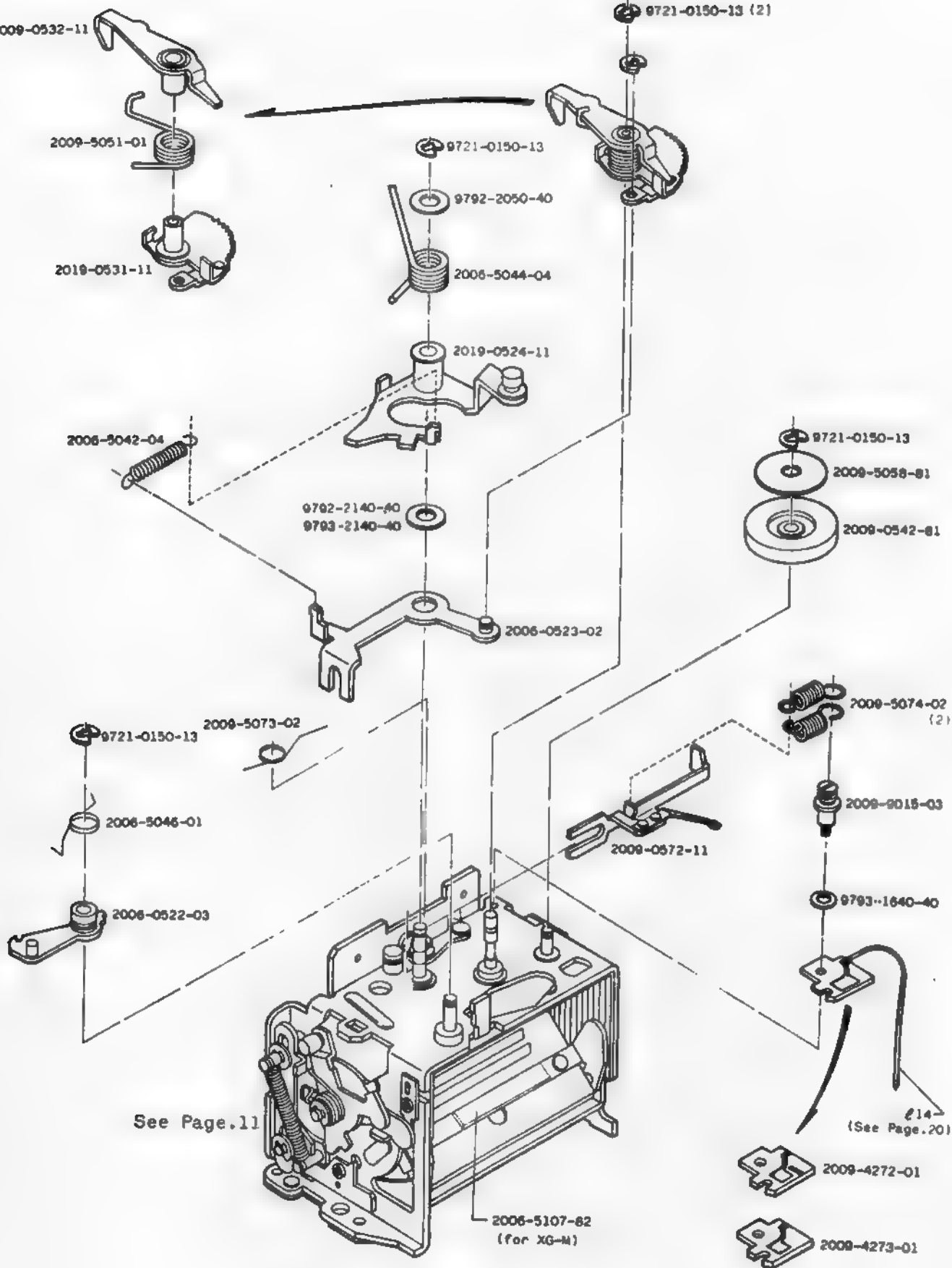
See Page.11

2006-5107-82  
(for XG-M)

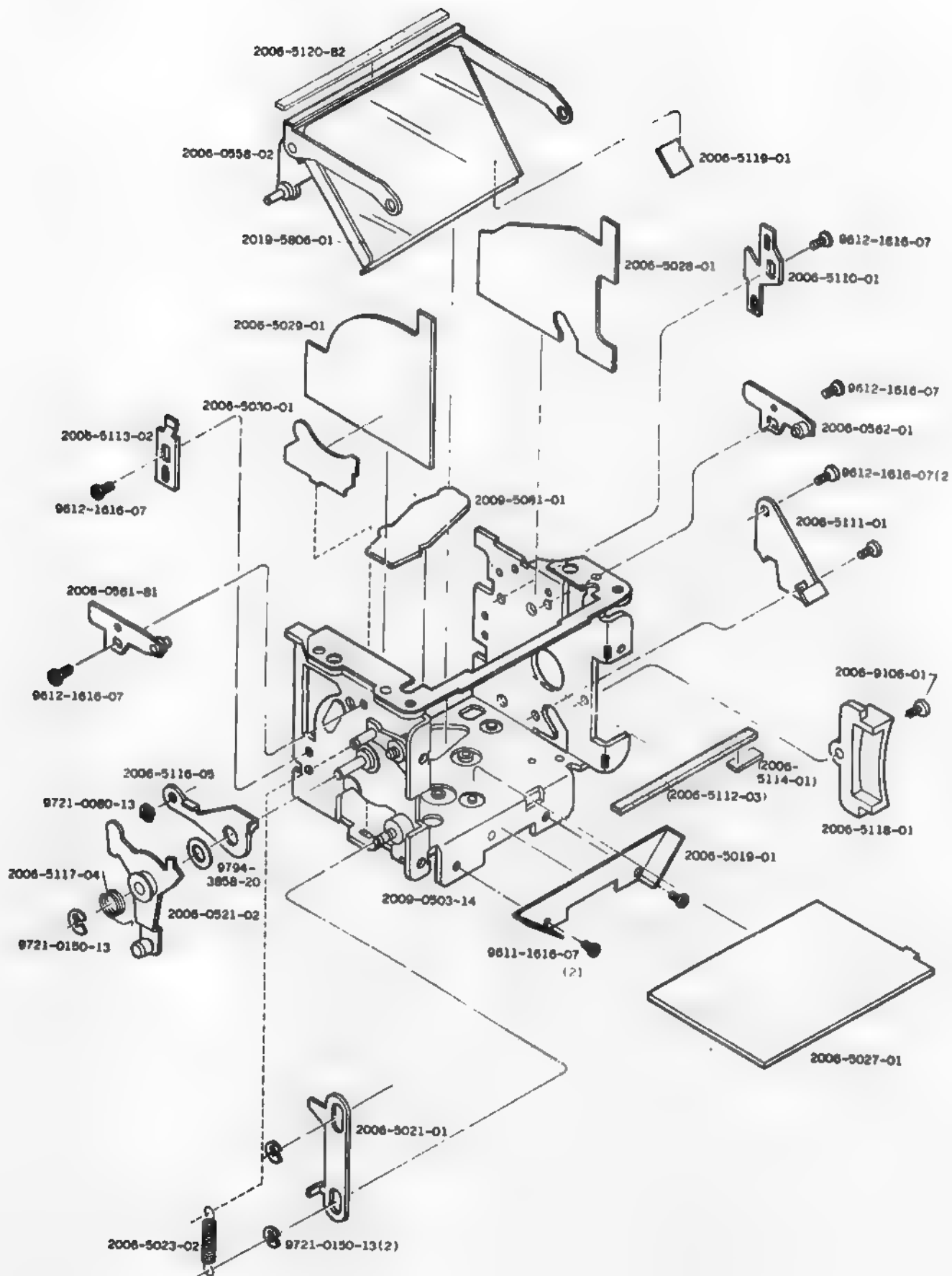
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(See Page.20)

2009-4272-01

2009-4273-01



Part No.	Part Name	Qty.
2006-0522-03	Mirror return lever lock claw set	ミラー戻しレバーロック爪セット 1
2006-0523-02	Preset operation lever set	プリセット連動レバーセット 1
2019-0524-11	Mirror return lever set	ミラー戻しレバーセット 1
2019-0531-11	Preset operation plate set	プリセット作動板 1
2009-0532-11	Preset lever set	プリセットレバー 1
2009-0542-81	Fly wheel gear set	フライホイールギヤー 1
2009-0572-11	PV lever set	PV レバーセット 1
2009-4272-01	PV lock base plate	PV ロック基板 } 1
2009-4273-01	PV lock base plate	
2006-5042-04	Mirror-up spring	ミラーアップ SP 1
2006-5044-04	Mirror return spring	ミラー戻し SP 1
2006-5046-01	Lock claw spring	ロック爪スプリング 1
2009-5051-01	Preset lever spring	プリセットレバーSP 1
2009-5058-81	Washer	フライホイールワッシャー 1
2009-5073-02	PV lock spring	プレビューロックSP 1
2009-5074-02	PV lever spring	PV レバーSP 2
2006-5107-82	Protection sheet	ミラーホルダーアーム保護シート 1
2009-9015-03	Screw	止めビス 1
9721-0150-13	E-ring	E リング 5
9792-2140-40	Washer	薄ワッシャー 1
9792-2050-40	Washer	薄ワッシャー 1
9793-1640-40	Washer	薄ワッシャー 1
9793-2140-40	Washer	薄ワッシャー 1





Part No.	Part Name		Qty.
2009-0503-14	Mirror box set	ミラーボックスセット	1
(2006-5112-03)	Mirror cushion	ミラークッション	1
(2006-5114-01)	Mirror cushion-B	ミラークッションB	1
2006-0521-02	Mirror operation lever-set	ミラー操作レバーセット	1
2006-0558-02	Mirror holder set	ミラーホルダーセット	1
2006-0561-81	Operation lever-B base set(Right)	ミラー操作レバB軸台セット (右)	1
2006-0562-01	Operation lever-B base set(Left)	ミラー操作レバーB軸台セット (左)	1
2006-5019-01	Mirror box apron	ミラーボックスエプロン	1
2006-5021-01	Mirror release lever	ミラーリリースレバー	1
2006-5023-02	Mirror release lever spring	ミラーリリースレバーSP	1
2006-5027-01	Flare shield plate(bottom)	フレア防止シート (下)	1
2006-5028-01	Flare shield plate(Left side)	フレア防止シート (左)	1
2006-5029-01	Flare shield plate (Right side)	フレア防止シート (右)	1
2006-5030-01	Flare shield support plate	フレア防止シート補助板	1
2009-5081-01	Mirror box cover	ミラーボックス穴カバー	1
2006-5110-01	Mirror support stopper-A	ミラー補助ストッパーA	1
2006-5111-01	Mirror stopper	ミラーストッパー	1
2006-5113-02	Mirror support stopper-B	ミラー補助ストッパーB	1
2006-5116-05	Mirror operation lever-B	ミラー作動レバー	1
2006-5117-04	Mirror operation lever spring	ミラー操作レバーSP	1
2006-5118-01	Mirror box light shield plate	ミラーボックス遮光片	1
2006-5119-01	Mirror stopper gum	ミラーストッパーゴム	1
2006-5120-82	Mirror arm cushion	ミラーアームクッション	1
2019-5806-01	Mirror	ミラー	1
2006-9106-01	Screw	止めビス	1
9611-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	2
9612-1616-07	Phillips type screw	十字穴付なべ頭小ねじ	6
9721-0080-13	E-ring	Eリング	1
9721-0150-13	E-ring	Eリング	3
9794-3858-20	Washer	薄ワッシャー	1

( 9613-1418-01 )

2008-0385-01

9761-2055-07  
( 3 )



9762-1745-02 ( 2 )

2019-3407-01

2019-0381-11

2008-3404-02

2008-3414-07

9721-0120-13

2008-3408-05

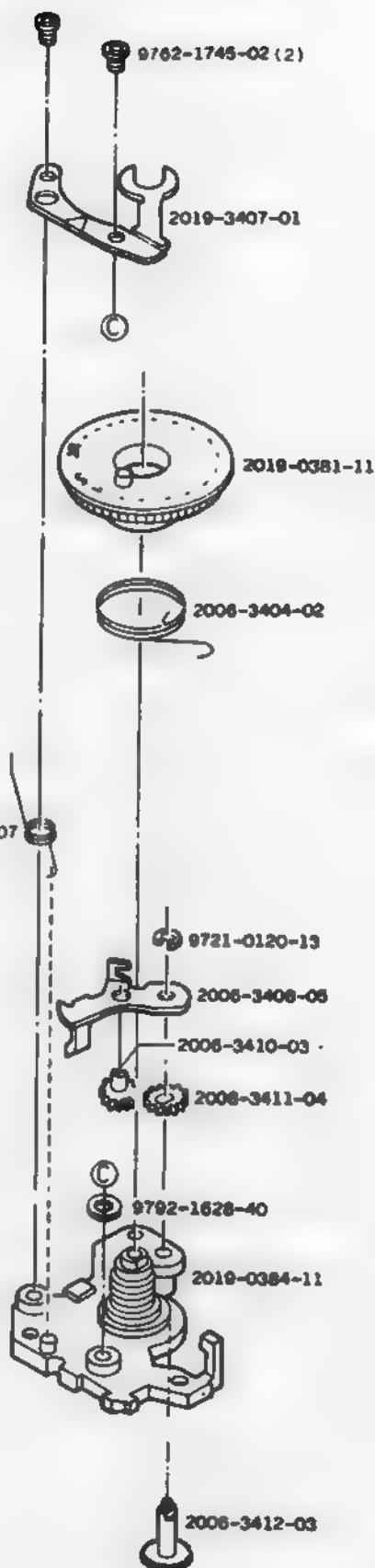
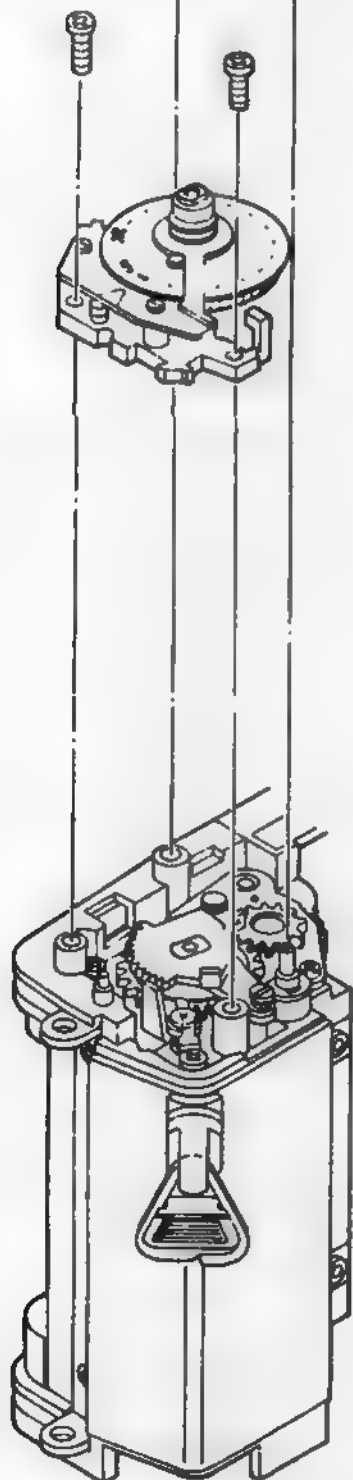
2008-3410-03

2008-3411-04

9792-1628-40

2019-0384-11

2008-3412-03



Part No.	Part Name		Qty.
2019-0381-11	Counter dial set	カウンターダイヤルセット	1
2019-0384-11	Winding base plate-B set	巻取台板Bセット	1
2006-0385-01	Film indication lever set	フィルム表示レバーセット	1
(9613-1418-01)	Phillips type screw	十字穴付半丸皿頭小ねじ	1
2006-3404-02	Counter return spring	カウンター戻しSP	1
2019-3407-01	Counter index	カウンター指標	1
2006-3408-05	Counter operation lever set	カウンター駆動操作レバー	1
2006-3410-03	Counter operation gear-B set	カウンター駆動ギヤー	1
2006-3411-04	Counter operation gear-C set	カウンター伝達ギヤー	1
2006-3412-03	Counter operation gear-A set	カウンター連結ギヤー	1
2006-3414-07	Return lever spring	ゼロリターンSP	1
9761-2055-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	3
9762-1745-02	Tap tite screw	十字穴付なべ頭小ねじ	2
9721-0120-13	E-ring	E リング	1
9792-1628-40	Washer	薄ワッシャー	1

- Use each part in combination (2006-0325-12 and 2006-3042-01, 2006-0325-13 and 2006-3042-03).

- それぞれペアで使用して下さい。

2006-3042-01

2006-0325-12



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(for X8-M)



2006-3042-03

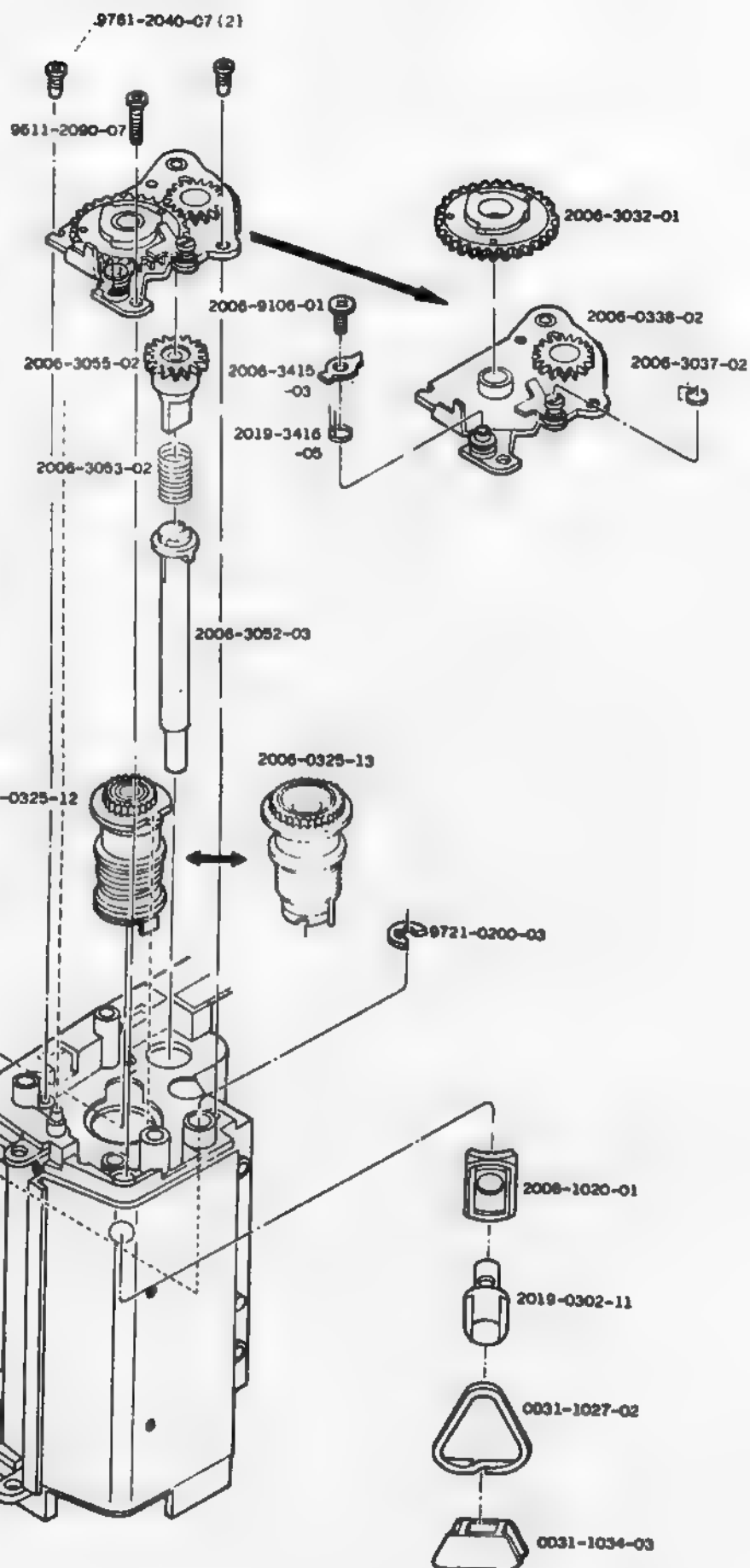
2006-0325-13



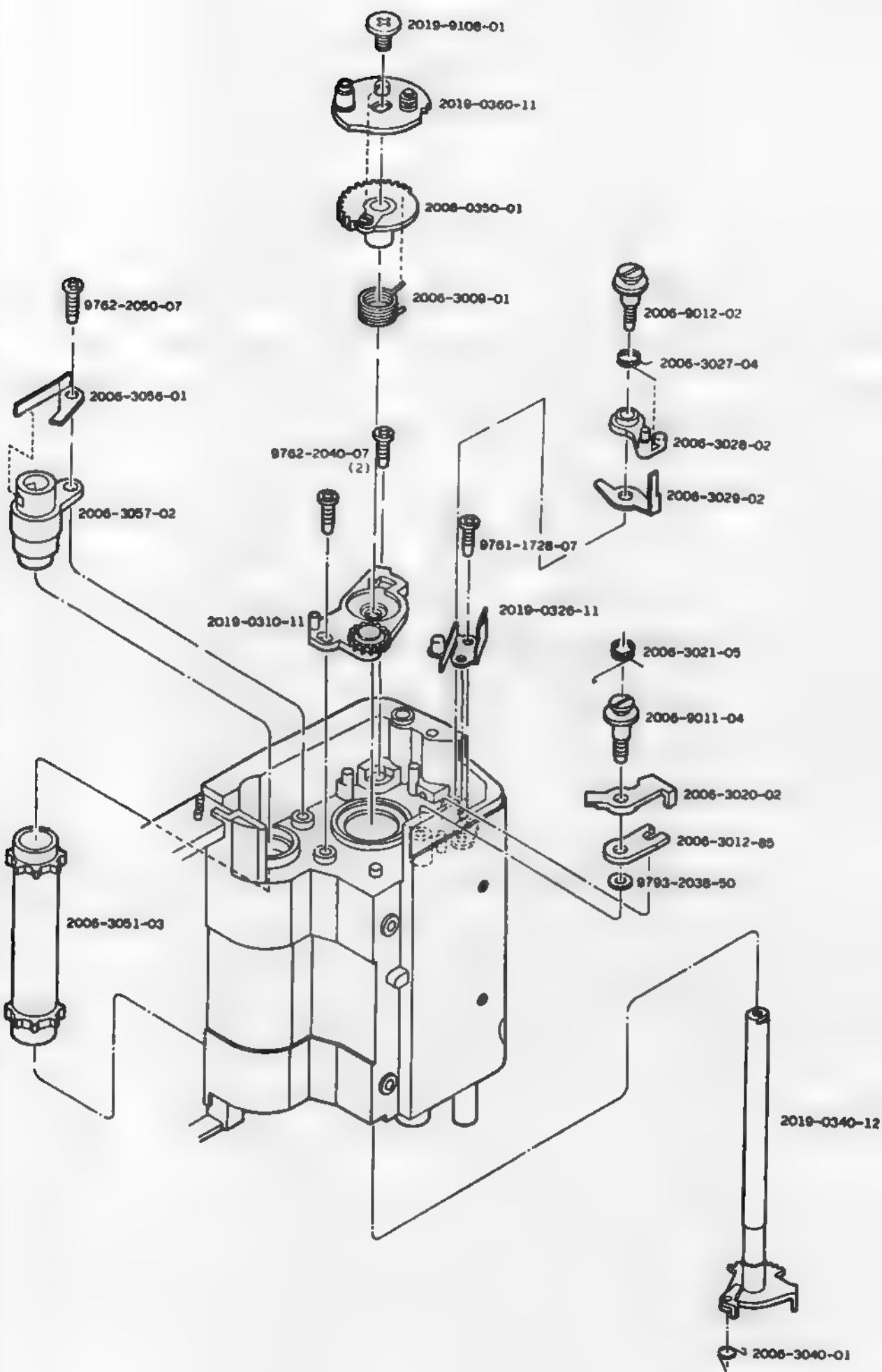
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(for X8-M & X-70)

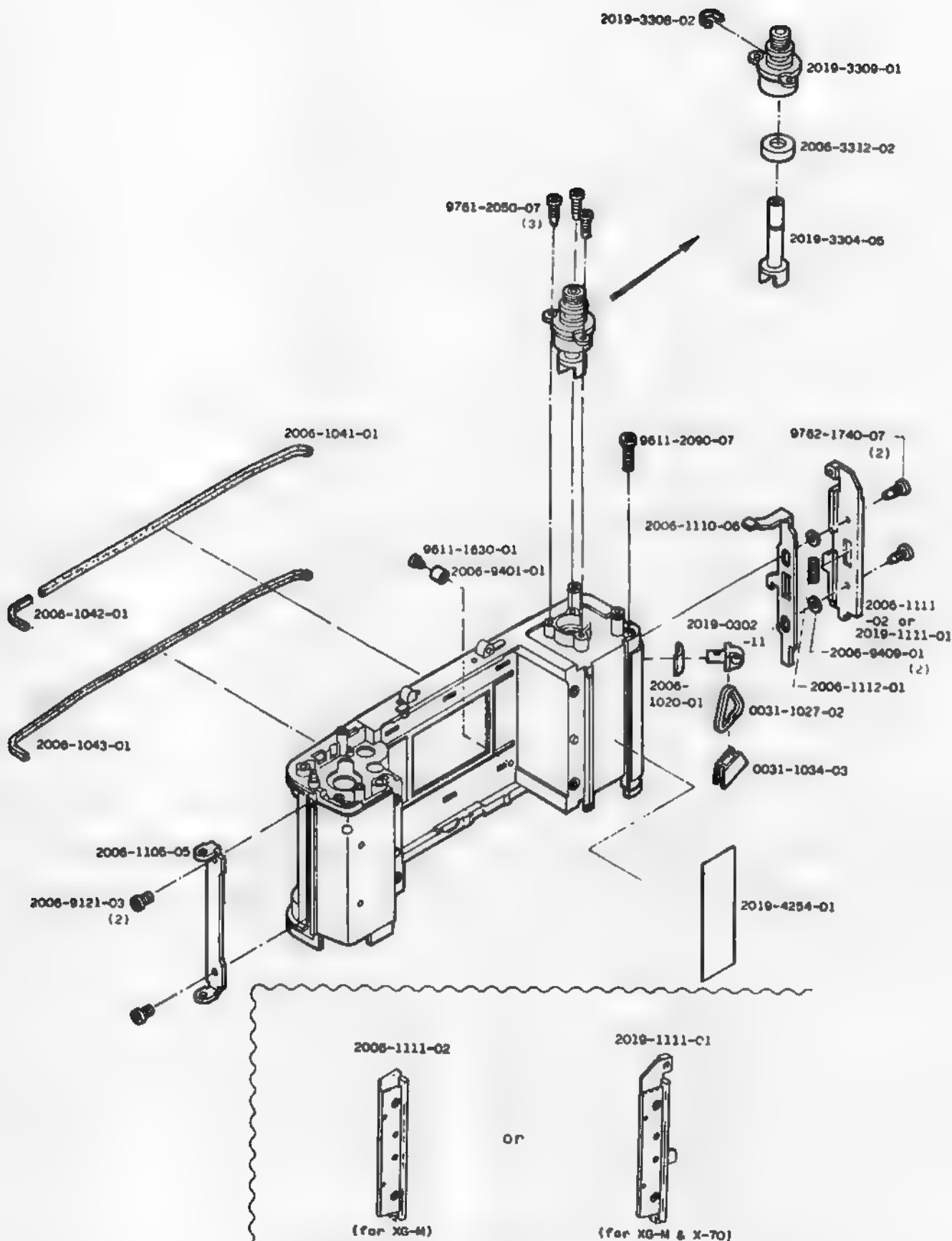


Part No.	Part Name		Qty
2019-0302-11	Strap hanger set	吊環セット	1
2006-0325-12 2006-0325-13	or Spool gear set	スプールギヤーセット	1
2006-0338-02	Winding base plate-A set	巻取台板 A セット	1
2006-1020-01	Strap hanger seat	吊環座	1
0031-1027-02	Strap hanger ring	三角吊環	1
0031-1034-03	Strap hanger ring stopper	三角環回り止め	1
2006-3032-01	Winding gear	巻取ギヤー	1
2006-3037-02	Reversion stop claw spring	逆転防止爪SP	1
2006-3041-04	Spool	スプール	1
2006-3042-01 2006-3042-03	or Spool inner barrel	スプール内筒	1
2006-3052-03	Sprocket shaft	スプロケット軸	1
2006-3053-02	R button release spring	R 釦解除SP	1
2006-3055-02	Sprocket gear	スプロケットギヤー	1
2006-3415-03	Winding operation lever	トンボ返りレバー	1
2019-3416-05	Winding operation lever spring	トンボ返りレバーSP	1
2006-3421-03	Film indication filler	フィルム表示フイラー	1
2006-9106-01	Screw	止めねじ	1
9611-2090-07	Phillips type screw	十字穴付なべ頭小ねじ	1
9761-2040-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9721-0200-03	E-ring	E リング	1



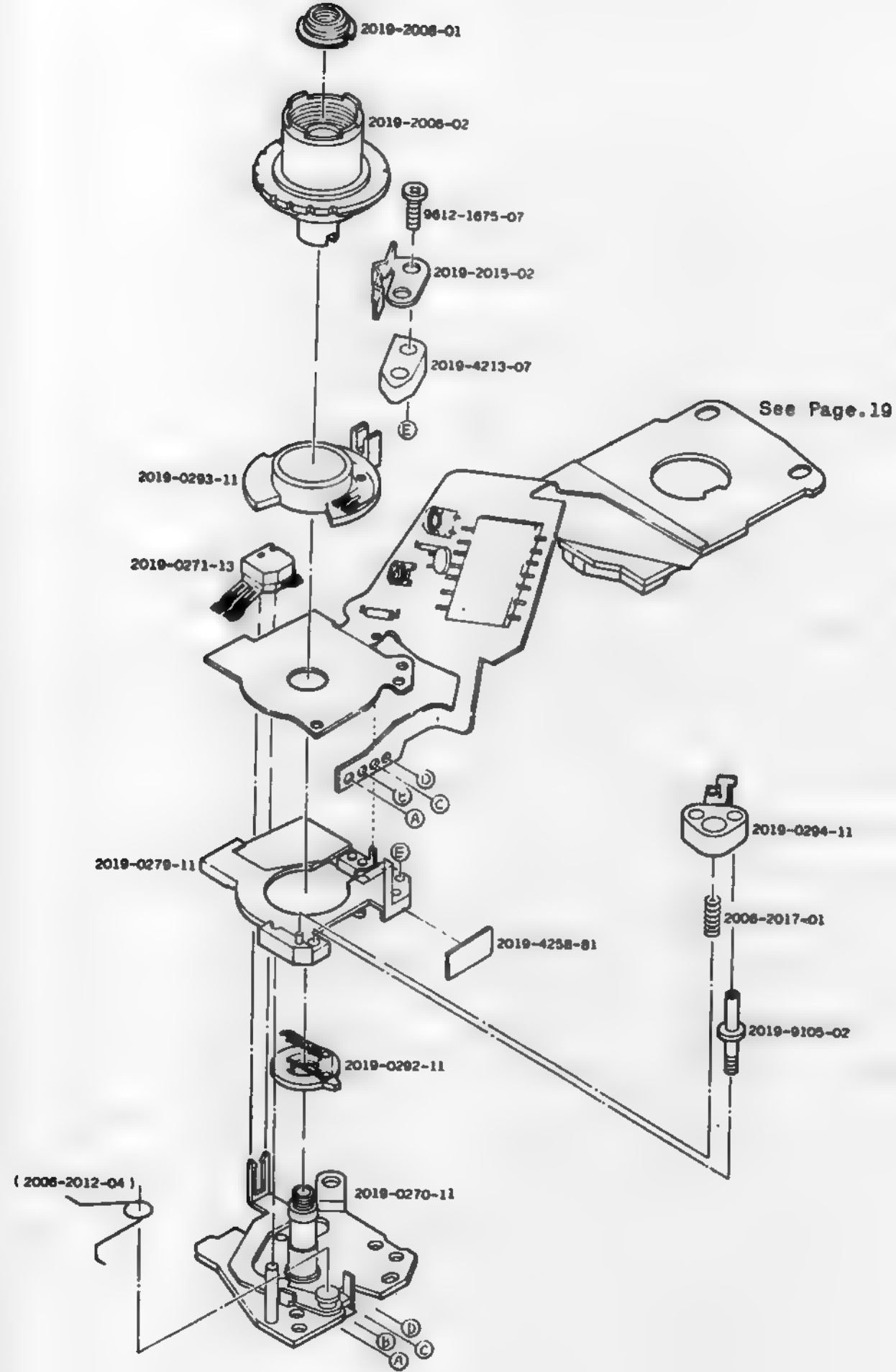
Part No.	Part Name		Qty
2019-0310-11	Winding axis receiver set	巻取軸受セット	1
2019-0326-11	S4 contact set	S4 接片セット	1
2019-0340-12	Winding operation plate set	巻取操作板セット	1
2006-0350-01	Shutter charge gear-D set	シャッターチャージギヤーセット	1
2019-0360-11	Charge operation plate set	チャージ操作板セット	1
2006-3009-01	Return spring	戻しSP	1
2006-3012-85	Winding stop lever	巻止めレバー	1
2006-3020-02	Reset lever	リセットレバー	1
2006-3021-05	Reset lever spring	リセットレバースプリング	1
2006-3027-04	S4 spring	S4 SP	1
2006-3028-02	S4 charge lever	S4 切換レバー	1
2006-3029-02	S4 lug plate	S4 ラグ板	1
2006-3040-01	Winding calw spring	巻取爪SP	1
2006-3051-03	Sprocket	スプロケット	1
2006-3056-01	R button lock spring	R釦ロックSP	1
2006-3057-02	Sprocket receiver	スプロケット軸受	1
2006-9011-04	Winding stop lever axis	巻止めレバー軸	1
2006-9012-02	S4 change lever axis	S4切換レバー軸	1
2019-9108-01	Screw	止めねじ	1
9761-1728-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9762-2004-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2
9762-2050-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	1
9793-2038-50	Washer	薄ワッシャー	1





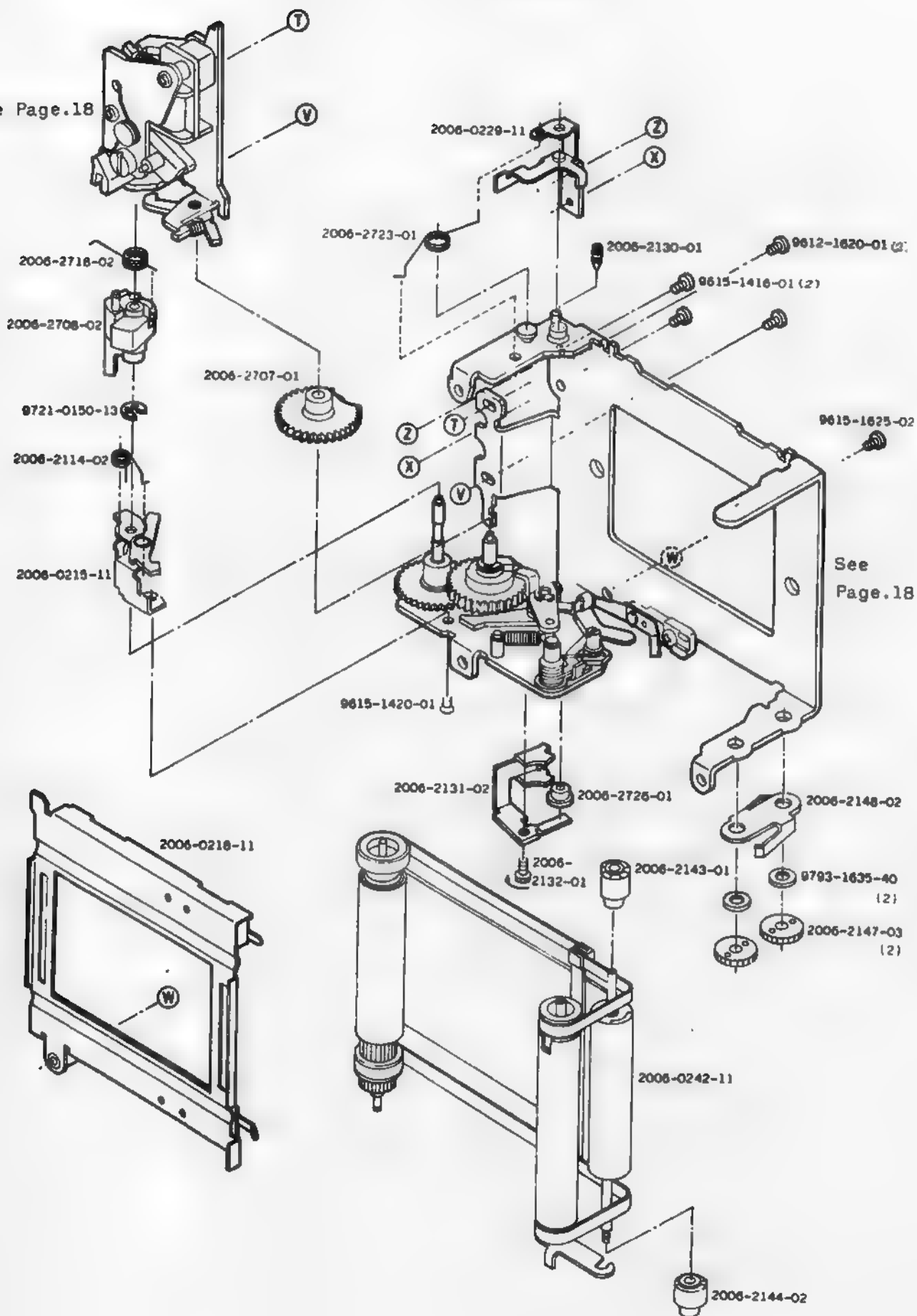
- 2019-1111-01 Should be used on the top cover with a screw-hole.
- 上カバーにビス穴が付いている物には2019-1111-01を使用して下さい。

Part No.	Part Name		Qty.
2019-0302-11	Strap hanger set	吊環セット	1
2006-1020-01	Strap hanger seat	吊環座	1
0031-1027-02	Strap hanger ring	三角吊環	1
0031-1034-03	Strap hanger ring stopper	三角環回り止め	1
2006-1041-01	Light shield packing-A	遮光パッキンA	1
2006-1042-01	Light shield packing-B	遮光パッキンB	1
2006-1043-01	Light shield packing-C	遮光パッキンC	1
2006-1105-05	Hinge	ヒンジ	1
2006-1110-06	Back cover lock lever	裏蓋ロックレバー	1
2006-1111-02 2019-1111-01 or	Lock cover	ロックカバー	1
2006-1112-01	Back cover lock spring	裏蓋ロックSP	1
2019-3304-05	Rewinding fork	巻戻しフオーク	1
2019-3308-02	Rewinding friction spring	巻戻しフリクションSP	1
2019-3309-01	Rewinding axis receiver	巻戻し軸受	1
2006-3312-02	Light shield collar	巻戻し遮光カラー	1
2019-4254-01	Tape(12X45)	リード線接着テープ	1
2006-9121-03	Screw	止めねじ	2
2006-9401-01	Film guide collar	フィルムガイドカラー	1
2006-9409-01	Lock guide	裏蓋ロックガイド	2
9611-1630-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9611-2090-07	Phillips type screw	十字穴付なべ頭小ねじ	3
9761-2050-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	3
9762-1740-07	Tap tite screw	十字穴付なべ頭タップタイトねじ	2

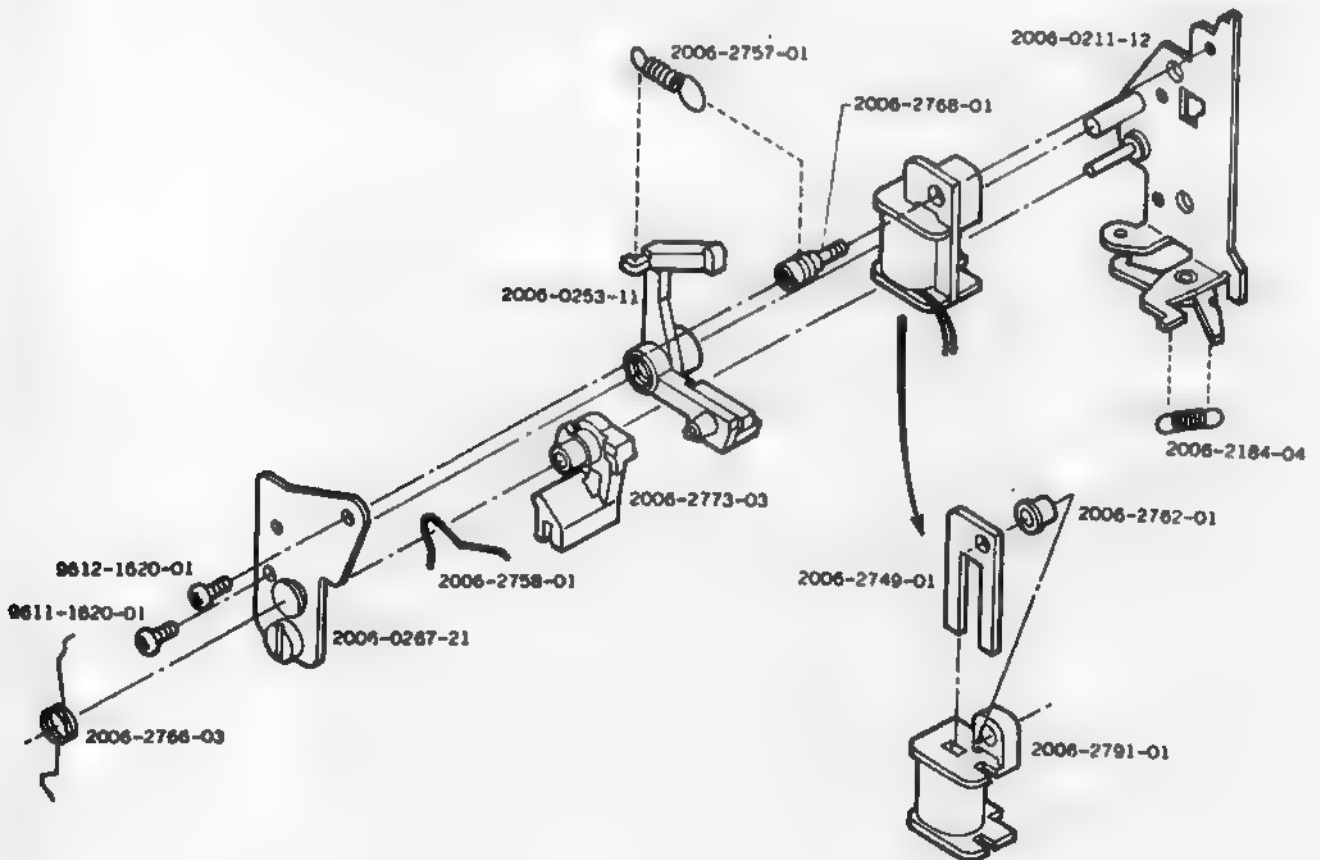
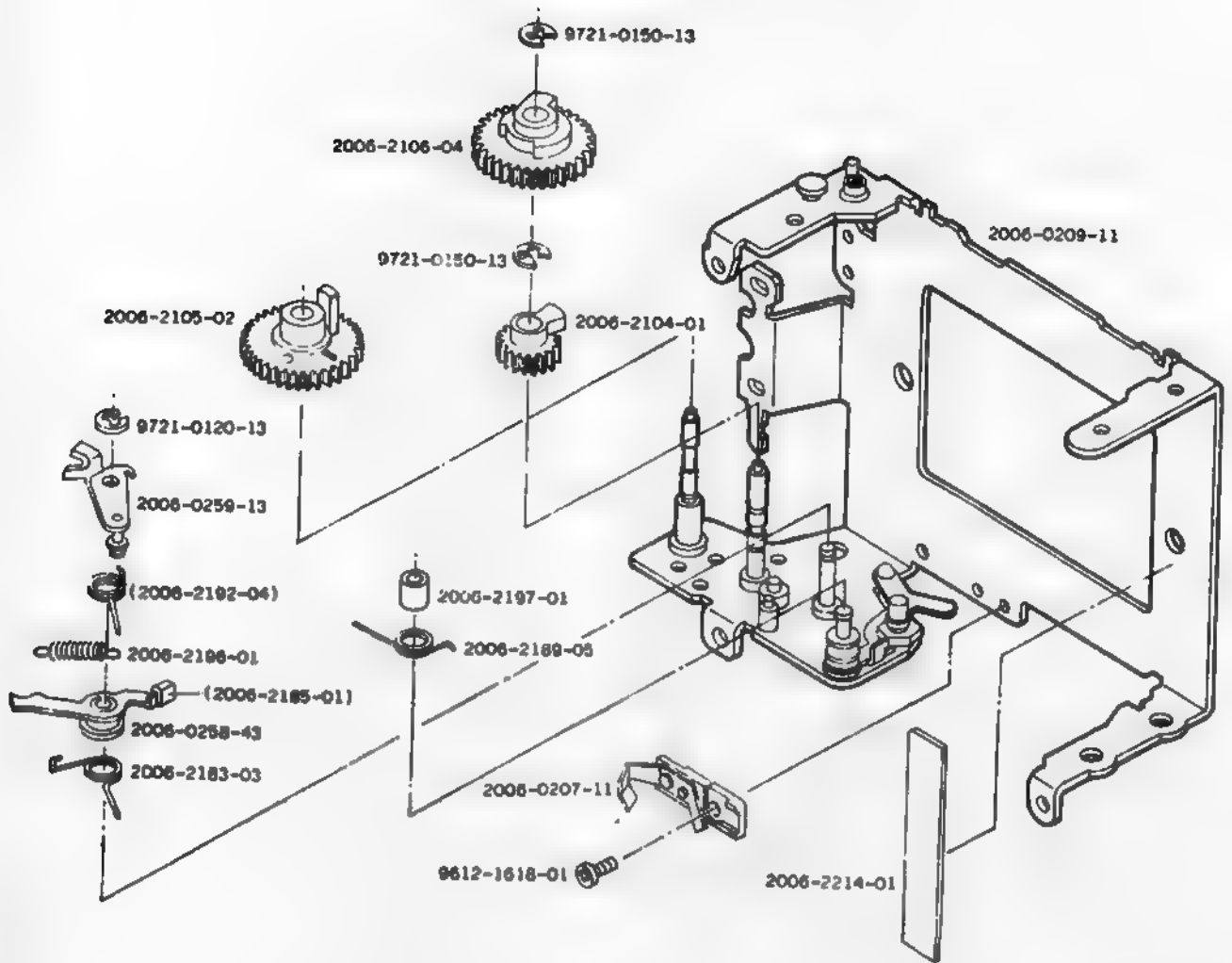


Part No.	Part Name		Qty.
2019-0270-11	Shutter speed dial base plate set	シャッターダイヤル台板セット	1
(2006-2012-04)	AM change spring	AM切換SP	1
2019-0271-13	AM change holder set	AM切換ホルダーセット	1
2019-0279-11	P.C. board-A holder set	基板Aホルダーセット	1
2019-0292-11	Cam plate set	カム板セット	1
2019-0293-11	Main SW holder set	メインSWホルダーセット	1
2019-0294-11	Auto lock plate set	オートロック板セット	1
2019-2006-02	Dial axis	シャッターダイヤル軸	1
2019-2008-01	Dial pressure	シャッターダイヤル押え	1
2019-2015-02	Click spring	クリックSP	1
2006-2017-01	Auto lock spring	オートロックSP	1
2019-4213-07	Click spring receiver	クリックSP受け板	1
2019-4258-81	Tape (6X9)	フレキ接着テープ	1
2019-9105-02	Auto lock plate guide	オートロック板ガイド	1
9612-1675-07	Phillips type screw	十字穴付なべ頭小ねじ	1

See Page.18



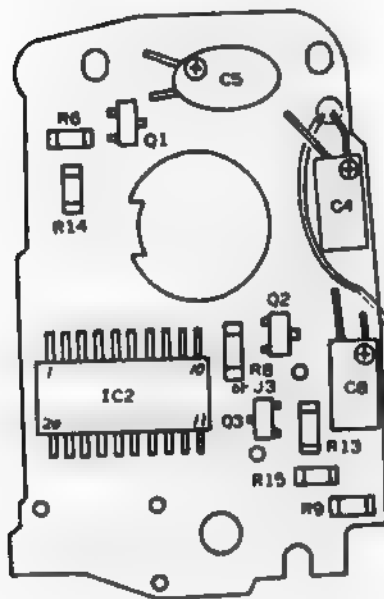
Part No.	Part Name		Qty.
2006-0222-11	Shutter block	シャッターブロック	1
2006-0215-11	1st curtain stop lever set	一幕係止レバーセット	1
2006-0218-11	Shutter cover plate set	シャッターカバー板セット	1
2006-0229-11	2nd curtain stop lever set	二幕係止レバーセット	1
2006-0242-11	Shutter curtain set	シャッター幕セット	1
2006-2114-02	First curtain stop lever spring	一幕係止レバーSP	1
2006-2130-01	Adjusting screw	幕調整ねじ	1
2006-2131-02	Curtain ribbon guide plate	幕リボンガイド板	1
2006-2132-01	Screw	止めねじ	1
2006-2143-01	2nd curtain roller-A	二幕ローラーA	1
2006-2144-02	2nd curtain roller-B	二幕ローラーB	1
2006-2147-03	Ratchet	幕スプリング筒軸止めラチェット	2
2006-2148-02	Ratchet stop spring	ラチェット止めSP	1
2006-2707-01	2nd curtain shutter gear	二幕シャッターギヤー	1
2006-2708-02	Control cam	制御カム	1
2006-2718-02	Control cam operation spring	制御カム駆動SP	1
2006-2723-01	2nd curtain stop lever spring	二幕係止レバーSP	1
2006-2726-01	Curtain shaft receiver-B	幕軸受 B	1
9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	2
9615-1416-01	Phillips type screw	十字穴付皿頭小ねじ	2
9615-1420-01	Phillips type screw	十字穴付皿頭小ねじ	1
9615-1625-02	Phillips type screw	十字穴付皿頭小ねじ	1
9721-0150-13	E-ring	Eリング	1
9793-1635-40	Washer	薄ワッシャー	2



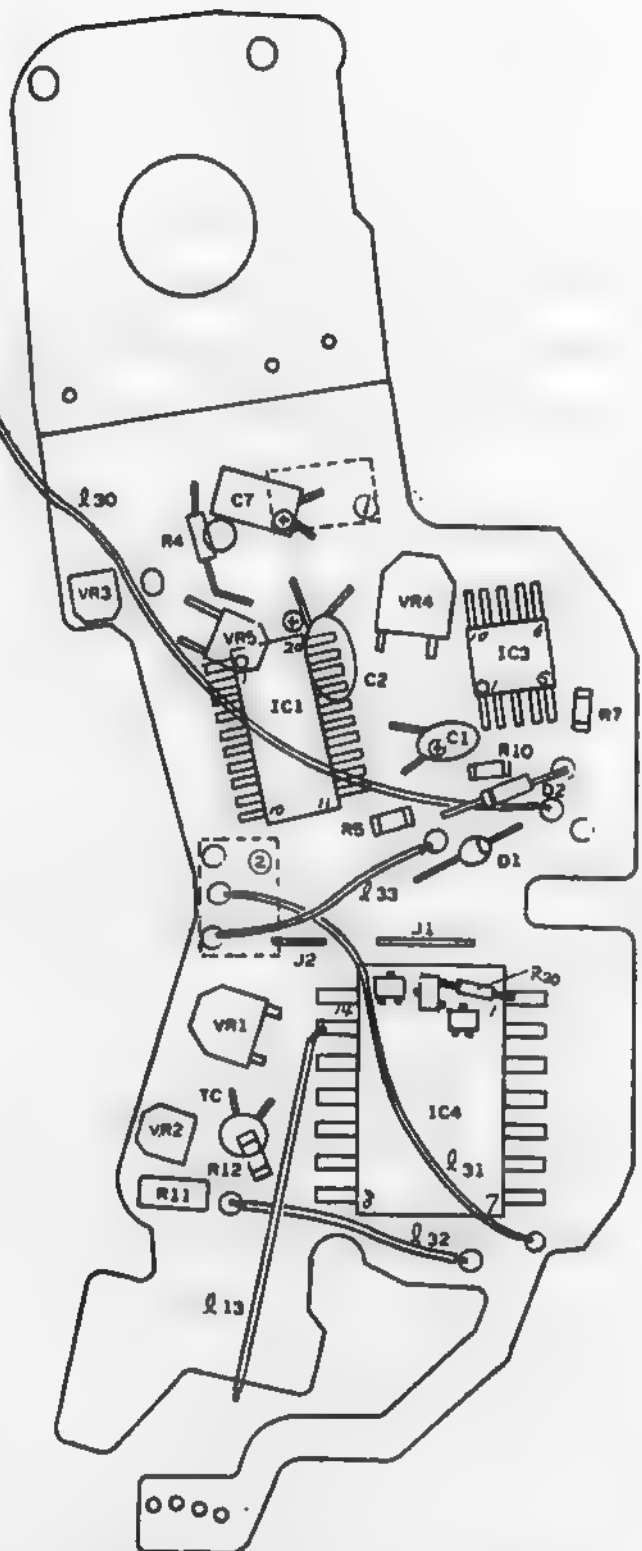
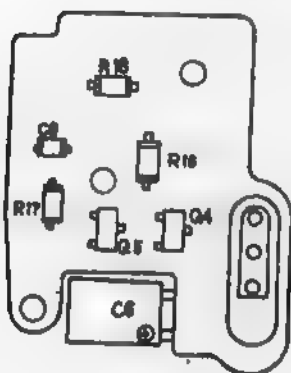
Part No.	Part Name		Qty.
2006-0207-11	X contact plate set	X接片セット	1
2006-0209-11	Shutter base plate set	シャッター台板セット	1
2006-0211-12	Control base plate set	制御台板セット	1
2006-0253-11	2nd curtain release lever set	二幕解除レバーセット	1
2006-0258-43	1st curtain brake lever set	一幕ブレーキレバーセット	1
(2006-2185-01)	Brake lever isolation collar	一幕ブレーキ絶縁カラー	1
2006-0259-13	2nd curtain brake lever set	二幕ブレーキレバーセット	1
(2006-2192-04)	2nd curtain brake spring	二幕ブレーキSP	1
2006-0267-21	Wiring base plate set	Mg 配線基板セット	1
2006-2104-01	Charge gear-B	チャージギヤーB	1
2006-2105-02	Charge gear-A	チャージギヤーA	1
2006-2106-04	1st curtain shutter gear	一幕シャッターギヤー	1
2006-2183-03	1st curtain brake spring-B	一幕ブレーキSP B	1
2006-2184-04	Control cam stop lever spring	制御カム係止レバーSP	1
2006-2189-05	X lever spring	XレバーSP	1
2006-2196-01	2nd curtain brake return spring	二幕ブレーキ戻しSP	1
2006-2197-01	Brake lever axis collar	二幕ブレーキ消音カラー	1
2006-2214-01	Tape	幕縁金保護テープ	1
2006-2749-01	Shutter magnet core	シャッターマグネット鉄芯	1
2006-2757-01	2nd curtain release lever spring	二幕解除レバーSP	1
2006-2758-01	Over charge spring	巻着片オーバーチャージSP	1
2006-2762-01	Magnet collar	マグネット取付カラー	1
2006-2766-03	Trigger contact	トリガー接片	1
2006-2768-01	Screw	止めねじ	1
2006-2773-03	Trigger contact operation lever	トリガー接片作動レバー	1
2006-2791-01	Shutter magnet bobbin	シャッターマグネットボビン	1
9611-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9612-1618-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9612-1620-01	Phillips type screw	十字穴付なべ頭小ねじ	1
9721-0120-13	E-ring	Eリング	1
9721-0150-13	E-ring	Eリング	2



2019-0402-01



2019-0427-01



R4	9422-2036-32	1/8W, 20KΩ	1
	9422-2236-32	1/8W, 22KΩ	
	9422-2436-32	1/8W, 24KΩ	
	9422-2736-32	1/8W, 27KΩ	
	9422-3036-32	1/8W, 30KΩ	
	9422-3336-32	1/8W, 33KΩ	
	9422-3936-32	1/8W, 39KΩ	
	9422-4736-32	1/8W, 47KΩ	
	9422-5636-32	1/8W, 56KΩ	
	9422-6836-32	1/8W, 68KΩ	
	9422-1046-32	1/8W, 100KΩ	
	9422-2046-32	1/8W, 200KΩ	

9372-2062-01(TC) Should employ 9422-3926-62 as the R12.  
 9372-2862-03(TC) should employ 9422-4726-62 as the R12.

TC 9372-2062-01に対してR12は9422-3926-62を使用して下さい。  
 TC 9372-2862-03に対してR12は9422-4726-62を使用して下さい。

Assy. Part No. 2019-0402-01 Assy. Part Name Flexible P.C. board set  
フレキシブル基板セット

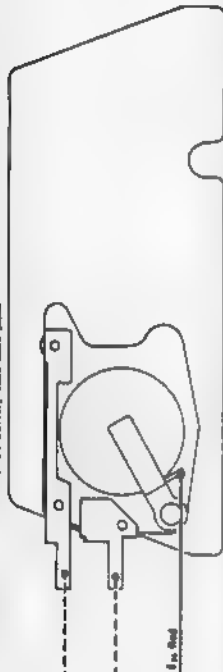
Symbol	Part No.	Com	Part Name	Type.	Qty.
IC1	2006-4301-03		I C	M51865	1
- IC2	2006-4302-03			M51866	1
IC3	2006-4303-03			M51867	1
IC4	2019-4304-01			HIC	1
D1	9361-1631-01		Diode	MB162	1
D2	9361-5631-11			IS953	1
Q3 Q2 Q1	9363-1632-02	03,04	Transistor	2SA812	3
TC	9372-2062-01	or	Thermistor	112202-02	1
	9372-2862-03			112502-02	
R5	9422-1046-62		Fixed resistor	1/8W, 100K $\Omega$	1
R6	9422-3046-62			1/8W, 300K $\Omega$	1
R7	9422-6806-62			1/8W, 68 $\Omega$	1
R8	9422-3916-62			1/8W, 390 $\Omega$	1
	9422-8216-62			1/8W, 820 $\Omega$	
	9422-1826-62			1/8W, 1.8K $\Omega$	
	9422-3326-62			1/8W, 3.3K $\Omega$	
J3	2019-8443-01		Jump lead wire	$\phi 0.4$ $l=4$	1
R9	9422-3016-62		Fixed resistor	1/8W, 300 $\Omega$	1
R15 R10	9422-2416-62			1/8W, 240 $\Omega$	2
R11	9423-2426-63			1/4W, 2.4K $\Omega$	1
R12	9422-3926-62	or		1/8W, 3.9K $\Omega$	1
	9422-4726-62			1/8W, 4.7K $\Omega$	
R13	9422-3036-62			1/8W, 30K $\Omega$	1
R14	9422-1036-62			1/8W, 10K $\Omega$	1
R20	9422-2036-32			1/8W, 20K $\Omega$	0-1
VR5 VR1	9472-2039-38		Variable resistor	VG062K 20K $\Omega$	2
VR3 VR2	9472-1539-63			EVM-14G 15K $\Omega$	2
VR4	9472-1529-38			VG062K 1.5K $\Omega$	1
C1	9535-1555-36		Condenser	35V/1.5 $\mu$ F TYPE202	1
C2	9535-6845-31			35V/0.68 $\mu$ F CSI5E	1
C4	9511-2265-65			6.3V/22 $\mu$ F ECEAOJK	1
C5	9531-4765-31			3.15V/100 $\mu$ F CSI5E	1
C7	9515-2255-61			50V/2.2 $\mu$ F ECEAIHK	1
C8	9511-3365-61			6.3V/33 $\mu$ F ECEAOJK	1
113	2006-8401-01		Lead wire	Yellow $\phi 0.08$ /7wires $l=30$	1
130	2006-8409-01			White $\phi 0.08$ /7wires $l=85$	1
131	2006-8403-01			Blue $\phi 0.08$ /7wires $l=45$	1
132	2006-8411-01			Red $\phi 0.08$ /7wires $l=20$	1
133	2006-8409-01			White $\phi 0.08$ /7wires $l=25$	1
J1	2019-8441-01			$\phi 0.4$ $l=8$	1
J2	2019-8442-01		Jump lead wire	$\phi 0.4$ $l=5$	1
② ①	2019-4258-31		Isolation tape	6X9	2

Assy. Part No. 2019-0427-01 Assy. Part Name Connector P.C. board set  
中継基板セット

Symbol	Part No.	Com	Part Name	Type.	Qty.
Q4 Q5	9362-1633-02	03,04	Transistor	2SC1623	2
R16	9432-2258-62		Fixed resistor	1/8W, 2.2M $\Omega$	1
R17	9432-1558-62			1/8W, 1.5M $\Omega$	1
R18	9432-3958-62			1/8W, 3.9M $\Omega$	1
C6	9511-1075-61		Condenser	6.3V/100 $\mu$ F ECEAOJK	1
C9	9564-6824-61			25V/6800PF CM21WR	1
③	2019-1066-02		Motor drive connect Holder モータードライ ブ接点ホルダー		1

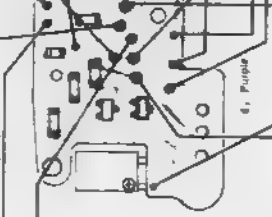
**XG-M CODE No.2019-100 (for EXPORT)**  
**X-70 CODE No.2019-500 (for DOMESTIC)**

0420 Battery case base plate



0427 Connector P.C. board

6.1 Blue



0155 Remote control base plate

6.1 Green  
6.1 Light Blue

0152 Circuit base plate B

6.1 Grey  
6.1 Grey

0087 Winding base plate

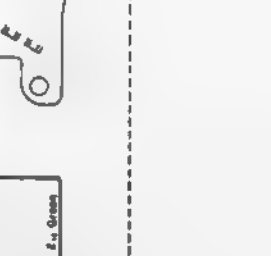
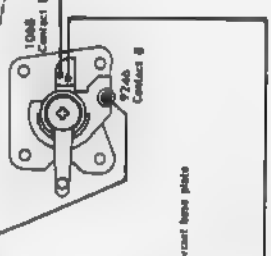
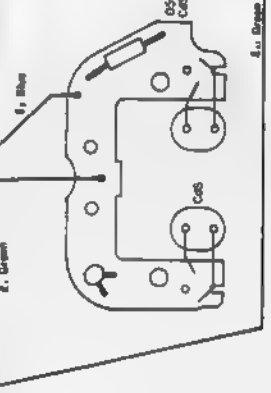
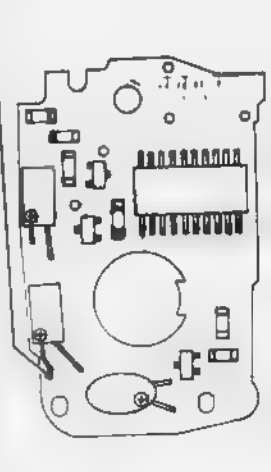
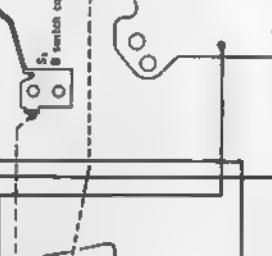
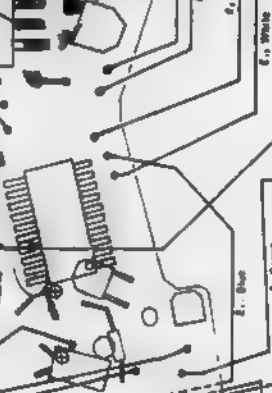
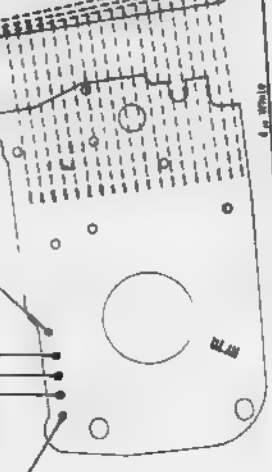
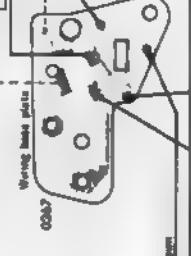
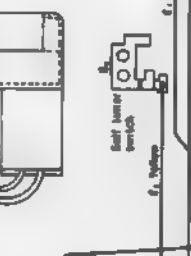
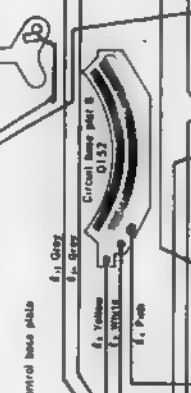
6.1 Orange  
6.1 Brown

2791 Shaft magnet assembly

6.1 Red  
6.1 Blue

2029 S. lug plate  
2026 S. contact

6.1 Red  
6.1 Blue



6.1 Brown

0096 CAS circuit base plate

0740 Contact B

1008 Contact E

6.1 Green  
6.1 Yellow

2291 Sync. transformer

6.1 Yellow  
6.1 Blue

6.1 Purple  
6.1 Blue

6.1 White  
6.1 Blue

## Lead wires list

Symbol				Part No.	Color	Type.	Qty.
			ℓ1	2006-8417-01	Green	60.08/7wires ℓ=35	1
			ℓ2	2006-8403-01	Blue	60.08/7wires ℓ=55	1
ℓ30	ℓ15		ℓ3	2006-8409-01	White	60.08/7wires ℓ=85	3
			ℓ4	2006-8408-01	Pink	60.08/7wires ℓ=85	1
			ℓ5	2006-8401-01	Yellow	60.08/7wires ℓ=75	1
			ℓ6	2006-8401-01	Yellow	60.08/7wires ℓ=110	1
			ℓ7	2006-8402-01	Brown	60.08/7wires ℓ=90	1
			ℓ8	2006-8413-01	Purple	60.08/7wires ℓ=90	1
			ℓ9	2006-8404-01	Orange	60.08/7wires ℓ=110	1
			ℓ10	2006-8411-01	Red	60.08/7wires ℓ=100	1
	ℓ19		ℓ11	2006-8403-01	Blue	60.08/7wires ℓ=100	2
			ℓ12	2006-8406-01	Grey	60.08/7wires ℓ=130	1
			ℓ13	2006-8401-01	Yellow	60.08/7wires ℓ=30	1
			ℓ14	2009-8427-01	Light Blue	60.08/7wires ℓ=145	1
			ℓ16	2006-8417-01	Green	60.08/7wires ℓ=200	1
			ℓ17	2006-8417-01	Green	60.08/7wires ℓ=215	1
			ℓ18	2006-8402-01	Brown	60.08/7wires ℓ=140	1
			ℓ20	2006-8411-01	Red	60.08/7wires ℓ=90	1
			ℓ21	2006-8404-01	Orange	60.08/7wires ℓ=85	1
			ℓ22	2006-8409-01	White	60.08/7wires ℓ=95	1
			ℓ23	2006-8414-01	Black	60.08/7wires ℓ=90	1
			ℓ24	2006-8406-01	Grey	60.08/7wires ℓ=170	1
			ℓ25	2006-8417-01	Green	60.08/7wires ℓ=55	1
			ℓ26	2006-8411-01	Red	60.08/7wires ℓ=25	1
			ℓ27	2006-8413-01	Purple	60.08/7wires ℓ=160	1
			ℓ28	2006-8403-01	Blue	60.08/7wires ℓ=140	1
			ℓ29	2006-8411-01	Red	60.08/7wires ℓ=140	1
			ℓ31	2006-8403-01	Blue	60.08/7wires ℓ=45	1
			ℓ32	2006-8411-01	Red	60.08/7wires ℓ=20	1
			ℓ33	2006-8409-01	White	60.08/7wires ℓ=25	1
			ℓ34	2009-8427-01	Light Blue	60.08/7wires ℓ=170	1

# REPAIR GUIDE

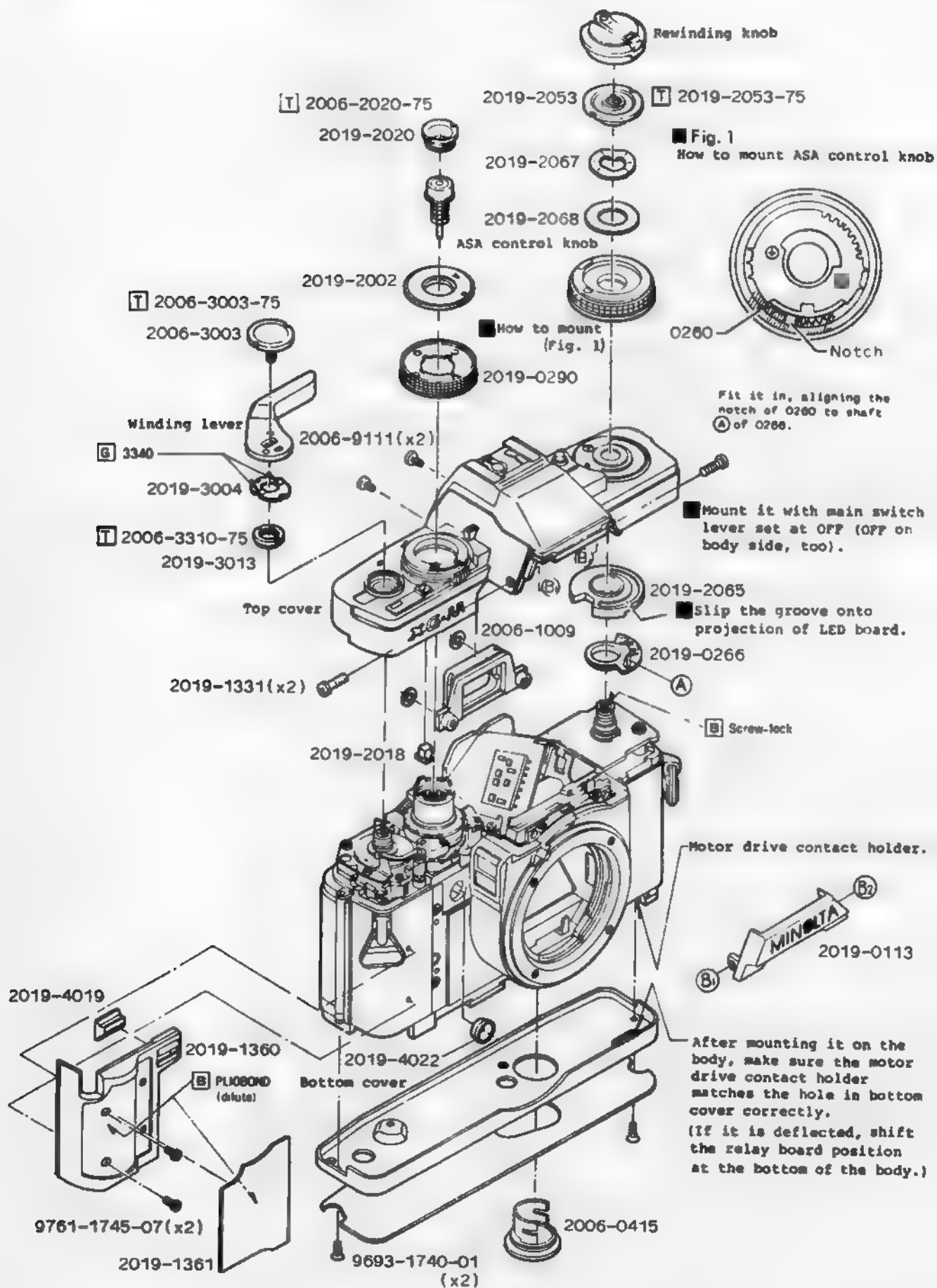
## 1. Contents of the manual

This manual refers to the following paragraph 2. Regarding the adjustment item, the difference from the XG series is only the adjustment of Manual 180mV on P3. But the flexible base plate is changed, causing alteration in position of each element, therefore, the related adjustment procedure is also mentioned in this manual.

For the adjustment of parts not mentioned, please refer to the 2006 Service Manual.

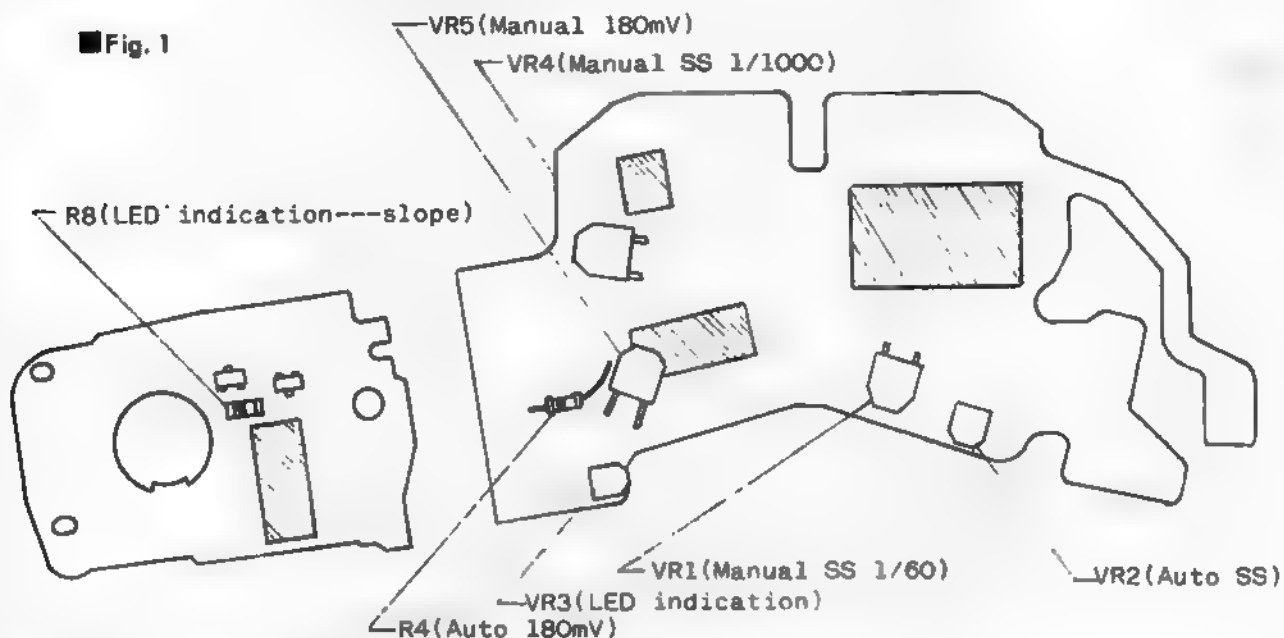
## 2. Assembly, adjustment, etc.

	Page
■ Outer case assembly procedure-----	1
■ Exposure adjustment	
1 Manual 180mV adjustment-----	3
2 Auto 180mV adjustment-----	4
3 Manual shutter speed adjustment-----	5
4 Auto shutter speed adjustment-----	5,6
5 LED indication adjustment-----	7
■ PV. SW timing check-----	8
■ F No. in-finder adjustment-----	8
■ Wiring diagram-----	9
■ Trouble shooting chart-----	10-20



## Adjustment of each variable resistor and fixed resistor Fig.1.

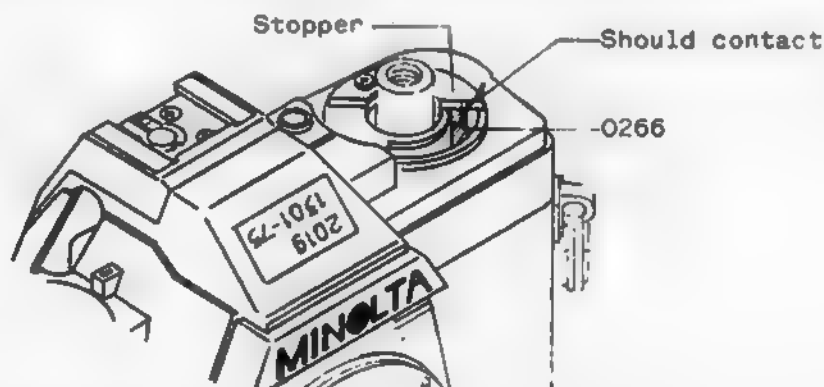
Fig. 1



## ASA 100 setting method, etc.

1. When adjusting the auto shutter speed and LED indication, used the temporary top cover (2019-1301-75) and set it to ASA100, as explained below.

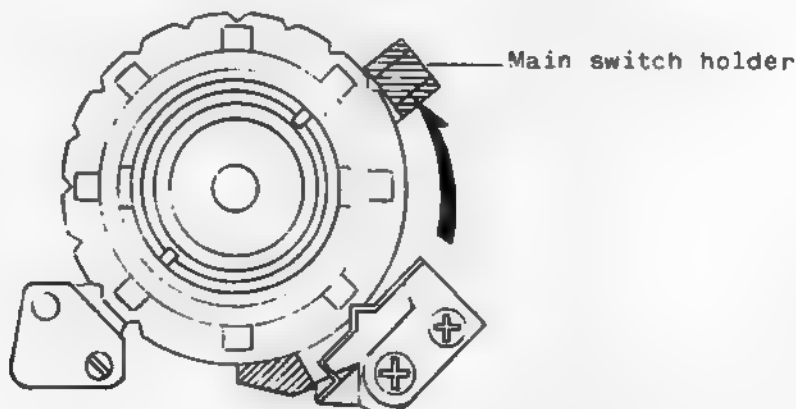
Fig. 2



- Turn O266 (ASA brush holder). ASA100 is obtained when the column of O266 touches the stopper of the temporary top cover.

2. Before adjustment, set the main switch to ON by turning O293 (main switch holder) in the direction of the arrow below.

Fig. 3



## Measurement of Cds resistance and selection of R1,R2.

— Refer to 2006 Service Manual (P.28) —

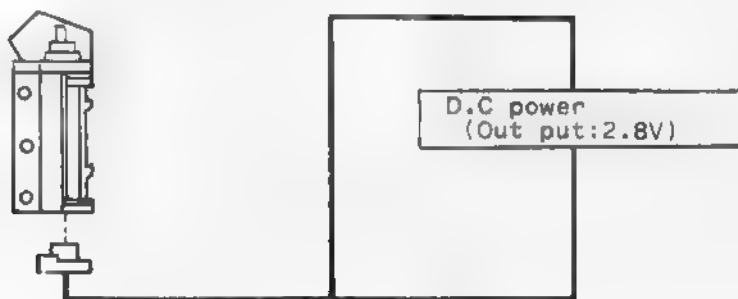
## 180mV adjustment (Adjustment of VR5, decision of R4)

- Measuring instruments :
- Contant voltage D.C power supply (MODEL 524B, E-1, E-2)
  - Digital multimeter (MODEL 2508, 3476, 2507)
  - Resistance selector
  - Battery adapter (2006-0415-75)

### ■ Adjustment procedure

Connect the camera and power source as illustrated below.

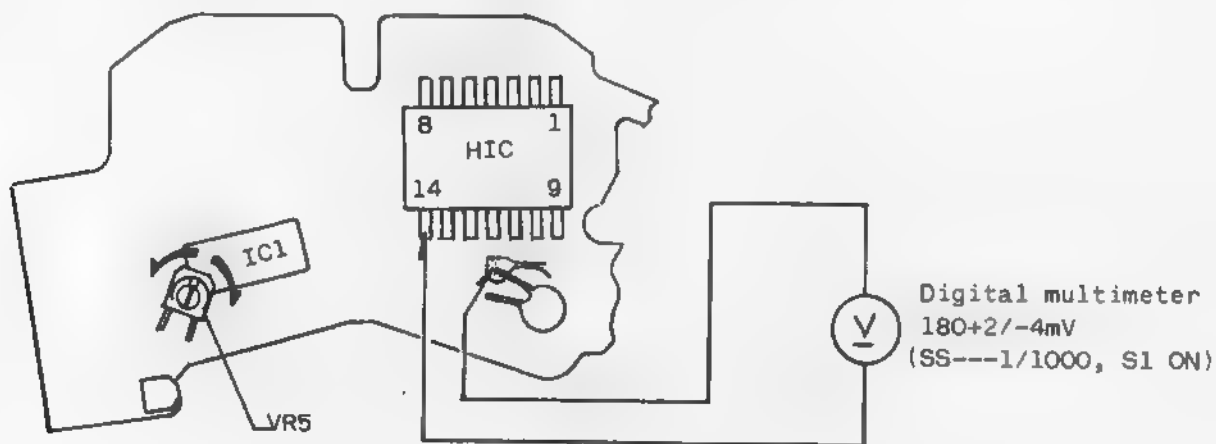
■ Fig. 1



### □ Manual 180mV adjustment (adjustment of VR5)

- Set the shutter dial to 1/1000, and main switch to ON.
- Adjust by turning VR5 so that the voltage of (S1 ON) is **180mV** (allowable range:  $180 \pm 2/-4\text{mV}$ ). When shutter button is pushed as in Fig.2.

■ Fig. 2

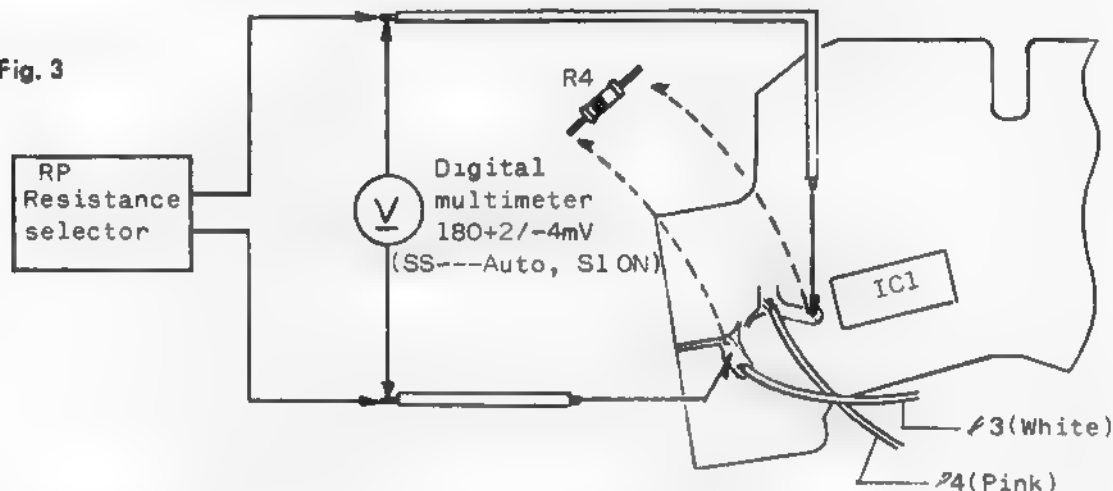




## 2 Auto 180mV adjustmnet (selection of R4)

1. Remove R4 and solder the lead (X2) to the position of R4, then connect the tester as illustrated below.

■ Fig. 3



2. Set the shutter dial to A (auto) and main switch to ON; then shift the dial of Rp resistance selector so that the voltage of (S1 ON) approaches 180mV (allowable range:  $180 \pm 2/-4$  mV), when shutter button is pushed.
  3. From those in the following table, pick the R4 that is closest to the resistance obtained by the Rp resistance selector; then solder it to the flexible board.
- After soldering, make sure the voltage is  $180 \pm 2/-4$  mV when measured at either terminal of R4 (in this case, remove the Rp resistance selector).
  - If the voltage is not within  $180 \pm 2/-4$  mV, re-check it by changing the resistance of R4, one rank higher or lower.

[Kinds of R4]

Resistance (K $\Omega$ )	Part No.	Resistance (K $\Omega$ )	Part No.
20	9422-2036-32	39	9422-3936-32
22	9422-2236-32	47	9422-4736-32
24	9422-2436-32	56	9422-5636-32
27	9422-2736-32	68	9422-6836-32
30	9422-3036-32	100	9422-1046-32
33	9422-3336-32	200	9422-2046-32

## Manual shutter speed adjustment (adjustment of VR1 VR4)

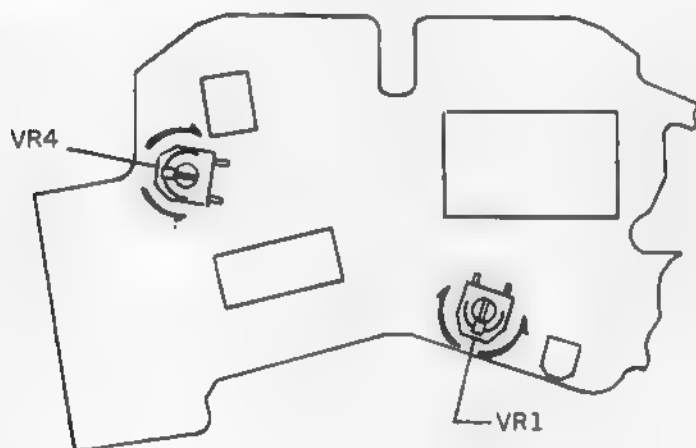
■ Measuring instruments: Shutter tester (MODEL S-2101, FS-1DMN4)

### ■ Adjustment procedure

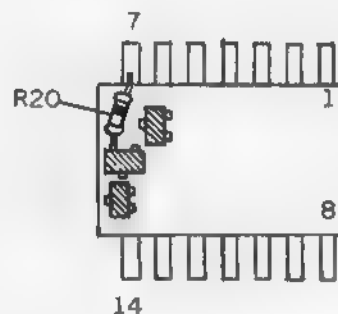
1. Adjust according to the procedure given in the table below.

Step	Item	Part adjusted	Value adjusted (checked)	Remarks
1	1/60 adjustment	VR1	15-17ms	If it is below 15ms even with VR1 fully turned, install resistor R20 (24K $\Omega$ ) as in Fig. 2.
2	1 sec. check	—	(830-1100ms)	If it is below 80ms, make the value of 1/60 within 15-18ms and re-check.
3	1/1000 adjustment	VR4	0.865-1.15ms	—
4	1/500 check	—	(1.62-2.42ms)	Beyond the range it is superseded by 1/1000.

■ Fig. 1



■ Fig. 2



## Auto shutter speed adjustment (adjustment of VR2)

\* The adjusting method at EE level with the use of EE tester is described in this paragraph. When making shutter speed adjustment using a timer counter, as in the 2006 service manual, connect the tester as shown in Fig.3 on P6.

■ Measuring instruments: EE tester (MODEL EE-2101, EE-2111)

: Standard luminance box (MODEL L-2101, L-222, L-223)

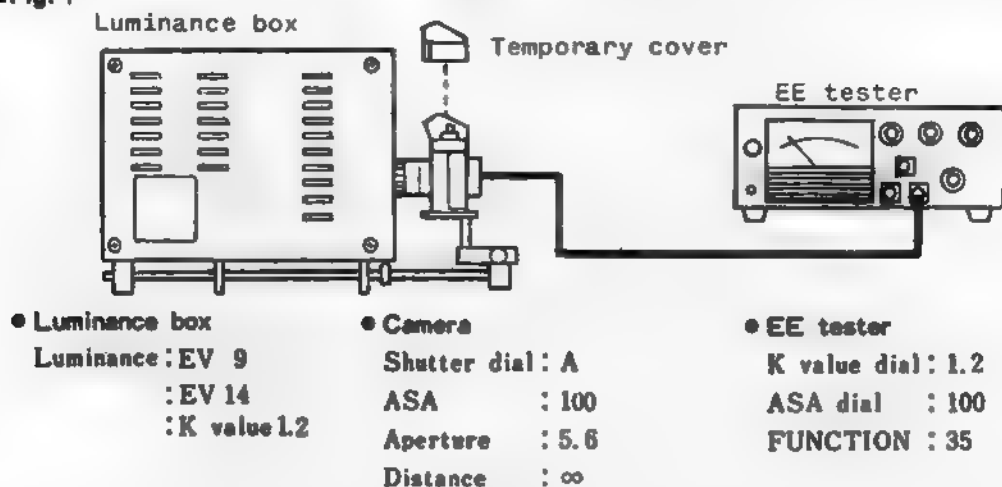
: Lens (1.4/50mm)

: Temporary cover (2019-1301-75)

# ■ Adjustment procedure

1. Set the camera and tester as illustrated below.

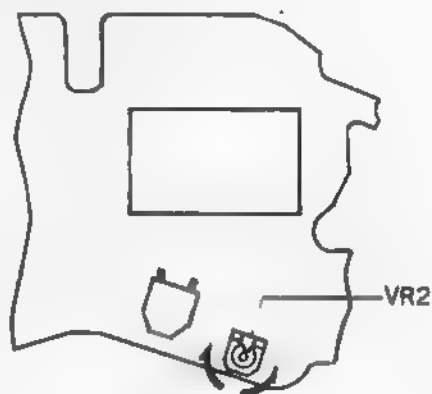
■ Fig. 1



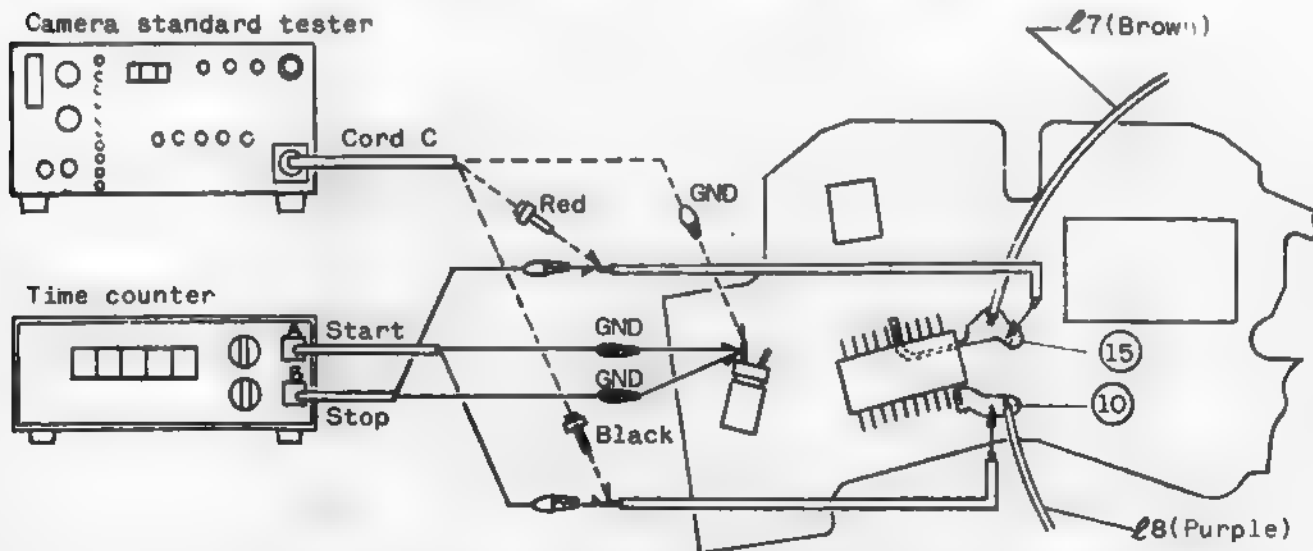
2. Adjustment according to the procedure given in the table below.

Step	Lumi-nance	Part adjusted	Allowable range
1	EV9	VR2	0 ± 0.8EV
2	EV14	Beyond the allowable range, it is superseded by EV9.	

■ Fig. 2



■ Fig. 3 (How to connect the time counter or camera standard tester).



● As shown above, solder the measuring lead to terminal ⑩ (start signal) and ⑮ (stop signal) of IC1, and then connect it to the time counter or camera standard tester.

● For the tester setting and adjustment procedure, refer to 2006 Service Manual(P32.)

## LED indication adjustment (adjustment of VR3)

■ Measuring instruments: Standard luminance box (MODEL L-2101, L-222, L-223)

: Lens (1.4/50mm)

: Temporary cover (2019-1301-75)

### ■ Standards

(1) Luminance: EV11  
ASA : 100  
Aperture : F8 } Allowable position  
of indication ( $\pm 1\text{EV}$ )

(2) Luminance: EV14  
ASA : 100  
Aperture : F5.6 } Allowable position  
of indication

60	☉	☉	●	●	●
30	●	☉	☉	☉	●
15	●	●	●	☉	☉

1000	☉	☉	●	●	●
500	●	☉	☉	☉	●
250	●	●	●	☉	☉

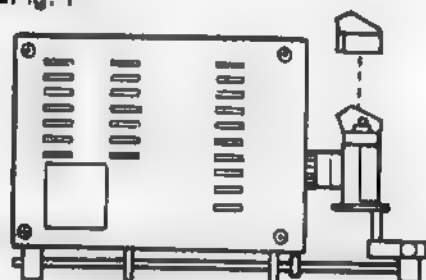
### ■ Adjustment procedure

1. Adjust according to the procedure given in the table below.

Step	Part adjusted	Lumi-nance	F No.	Value adjusted	Allowable range
1	VR3	EV11	F8	LED "30" ON	Standard(1)
2	—	EV14	F5.6	—	Standard(2)

- If LED outside the allowable range lights up at EV14, set it at EV11 or mask the adjustment in the following paragraph.

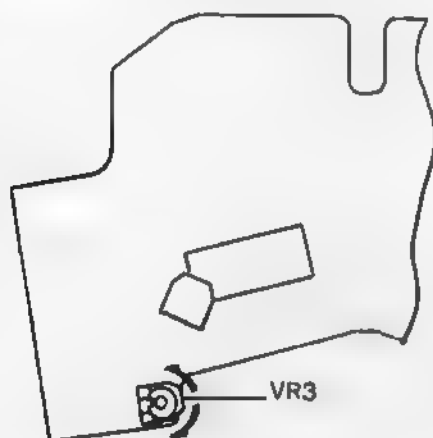
■ Fig. 1



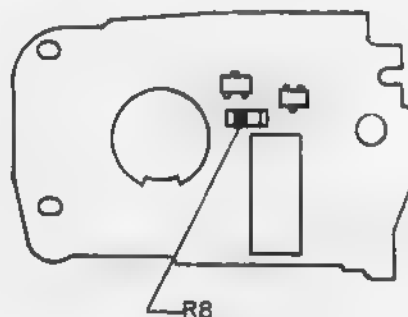
● Luminance box  
Luminance: EV9  
EV14  
K value : 1.2

● Camera  
Shutter dial: A  
ASA : 100

■ Fig. 2



■ Fig. 3



### ■ Deflection adjustment

- If LED indication is deflected to the lower speed side from standard (2)...Change the resistance (R8) to a higher resistance.
- If LED indication is deflected to the higher speed side from standard (2)...Change the resistance (R8) to a lower resistance.

After changing the resistance (R8), perform the adjustment from the beginning.

■ The PV. switch is designed to turn on when the PV. button is depressed 2.0mm. There is no chance of abnormality unless locking operations of the PV. lever and actuation of the PV. switch are performed out of sequence. So, check the switch according to the following procedure.

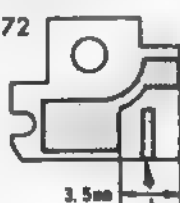
(The positions of PV. lever and switch are closest to each other unless inversion occurs between the operational timings of these parts. The range within which the mirror is allowed to be half raised is narrowed, and this is satisfactory.)

[OFF operation check]

1. Set the shutter dial to B.
  2. When the shutter is being released with shutter button pressed, the operation will be satisfactory if pushing the PV. button until the PV. lever is locked does not cause the second curtain to run.
- In case the second curtain runs (the PV. switch turns ON), replace the adjusting PV. lock base plate (4273) and adjust the PV. switch to delay in turning ON.

■ Fig. 1

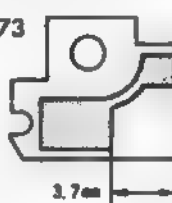
4272



3.5mm

Identification pattern

4273



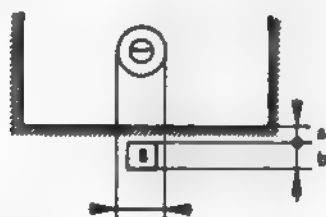
3.7mm

[ON operation check]

1. Push the shutter button with the PV. button fully depressed. It is satisfactory if the shutter is not released.

F No. in-finder adjustment

■ Specification



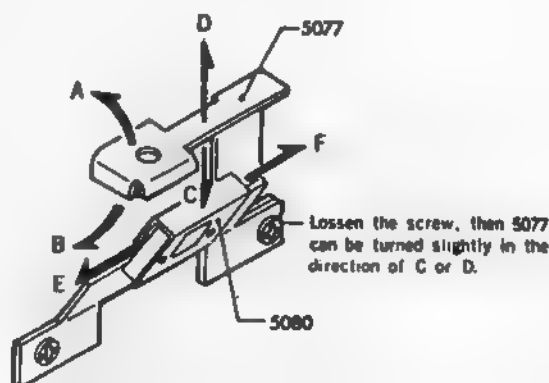
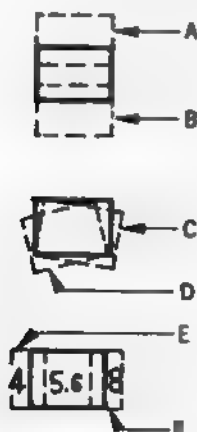
- The F no. indication should be within the frame, and any adjacent number should be invisible at F 5.6.
- Frame position : Height.....  $0 < a \leq b$   
: Within the microprism

■ Adjustment

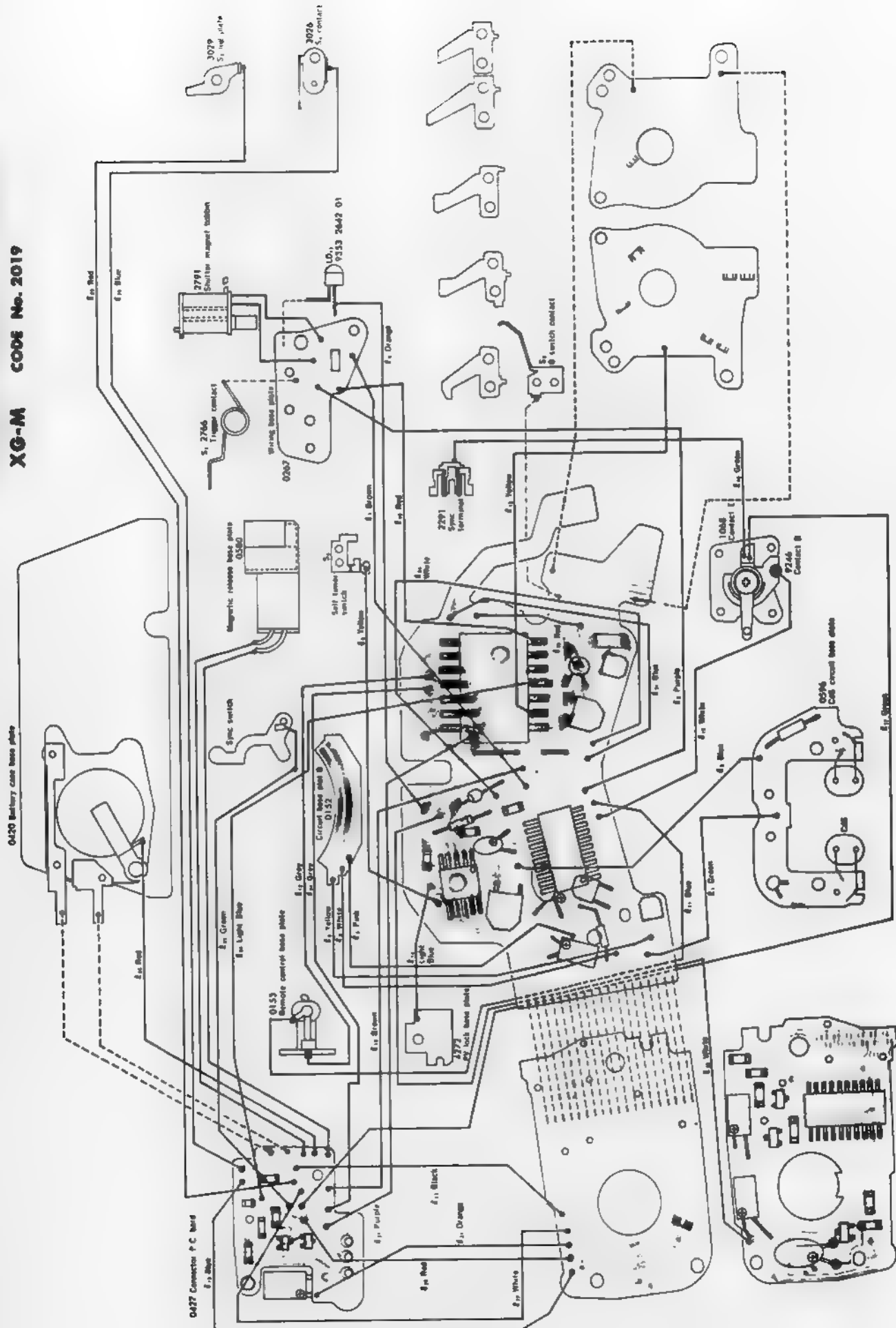
Check for deflection referring to Fig.2. Then make the adjustment by bending (shifting) 5077 and 5080 in each direction of A~E as shown in Fig.3.

■ Fig. 2 (Normal position is shown by thick lines.)

■ Fig.3



**XG-M**      **CODE No. 2019**



# Trouble Shooting Chart

## 1. Hints on use of Trouble Shooting Chart

1. This chart includes the symptoms and causes of troubles on the camera side.
2. Even when a symptom appears on the camera side, the trouble is not always on the camera side but in connection with the replacement lens, winder or exclusive strobe. Therefore, carefully check operations related to the auxiliary parts before using this chart.

## 2. Contents of Chart

Unlike a conventional flow chart, defects and their symptoms are theoretically analyzed in this chart.

## 3. Precautions for Work

1. A digital tester (2507) is to be used as the measuring instrument. It is also allowable to use other measuring instruments when the input impedance exceeds 10 MΩ.
2. Use the measuring instrument to check voltages, and a tester of less than 3V to check current conduction.
3. It can be safely said that troubles of electric parts such as IC's diodes, transistors, resistors, capacitors, etc. seldom occur. It is therefore practical to put emphasis on checking for defective soldering of lead wires and electric parts, defective switches, etc.
4. When checking for defective soldering, do not excessively press the parts or pull the lead wires.
5. When measuring voltage, attach a pin to the end of alligator clip because the portion measured is very narrow. Do not directly connect the alligator clip with the portion measured; otherwise damage to the electric parts or to the pattern may occur.
6. When measuring the switch operation pattern, take care not to scratch the pattern outside the switch operation range. In case of a switch contact, take care not to disturb the switch contact.
7. When removing electric parts, pull out the power supply cord.
8. The desirable soldering iron temperature is about 260~300°C. In any case, finish soldering in a few seconds. Be sure to remove chips before soldering.

## 4. How to use the Trouble Shooting Chart

1. Problems (symptoms) are listed horizontally, according to function. First check the symptoms of the camera and then find the defective parts reading this chart.

### 2. Symblos used in the chart

#### 2-1 Description of problem

- \* For open parts, defective soldering, disconnected leads, defective switch contacts, etc., are mentioned, including part of shortcircuit problems.  
⚡ show that the lead is caught by top cover or mechanism, causing it to become grounded.
- \* For the thermal pressure setting between flexible and other boards, the symbol is as shown in the flexible pattern diagram.

#### 2-2 Description for symptom

- \* For SS and indication functions,

o....normal;            x....defective;

blank....release impossible;

A....auto mode;       M....manual mode

- \* For self function, considerations are given mainly to blinking of LD13. For self release, refer to the release colum.

- \* The blanks in release, self, bulb, strobe and BC shown that the operations are normal.

Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Others ( )----with strobe
Open part	Auto	Manual	Auto	Manual	M letter					
IC1 ①		No exposure	▲ lights up	▲ lights up	○	A.No M:Yes				
②		○	▲ lights up	▲ lights up	○	A.No M:Yes				
③		○	▲ lights up	▲ lights up	○	A.No M:Yes				
④	Kept open	No exposure	X	/	○					
⑤	No exposure	No exposure	○	○	○					
⑥	No exposure	No exposure	○	X	○					Low on the whole -----LED ind. at n
⑦		○	▲ lights up	▲ lights up	○	A.No M:Yes				
⑧	○	○	○	○	○					(1/60 LED not blinking) (Doesn't come 1/60)
⑨			○	○	○	X				
⑩	No exposure	No exposure	○	○	○					
⑪	No exposure	No exposure	○	○	○					
⑫	Kept open	Kept open	○	○	○					
⑬	○	○	○	○	○					(1/60 LED not blinking)
⑭		No exposure	▲ lights up	▲ lights up	○	A.No M:Yes		No exposure		(1/60 LED not blinking) (Doesn't come 1/60)
⑮	No exposure	No exposure	○	○	○			No exposure		
⑯	No exposure	No exposure	○	○	○			No exposure		
⑰	Kept open	○	X	X	○					
⑱	*1	○	*2	*2	○					When change SV & AV, doesn't change LED & BS
⑲		○	▲ lights up	▲ lights up	○	A.No M:Yes				
⑳	Kept open	○	X	X	○					
IC2 ①	○	○	X (1/1000)	X (1/1000)	○					
②	○	○	X (▲)	X (▲)	○					Doesn't work ▲ lock
③	○	○	○	○	○					
④	*3	*3	○	○	○					LED doesn't turn off
⑤	*3	*3	○	○	○					
⑥	○	○	X	X	○					
⑦		○	▲ lights up	▲ lights up	○	A.No M:Yes				
⑧	○	○	○	○	○					LED doesn't follow by EV
⑨	○	○	X (▼)	X (▼)	○					
⑩	○	○	X (1/2)	X (1/2)	○					

\*1 : Become fast speed  
 \*2 : High on the whole  
 \*3 : Kept open with Remocon



Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Others ( )---with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
IC2(1)	○	○	X (1/4)	X (1/4)	○					
12	○	○	X (1/8)	X (1/8)	○					
13	○	○	Y	X	○					
14	○	○	X (1/15)	X (1/15)	○					
15	○	○	X (1/30)	X (1/30)	○					
16	○	○	X (1/60)	X (1/60)	○					
17	○	○	X (1/125)	X (1/125)	○					
18	○	○	X	X	○					
19	○	○	X (1/250)	X (1/250)	○					
20	○	○	Y (1/500)	X (1/500)	○					
IC3 (1)			○	○	○	X	X	X		
(2)	Bulb	Bulb	○	○	○					
(3)	○	○	○	○	○					Doesn't release with low voltage
(4)	○	○	○	○	○		X (Only no braking)			
(5)	○	○	○	○	○		X (Only no braking)		X	
(6)	○	○	○	○	○		X			
(7)	*3	*3	○	○	○		X			
(8)	abnormal	abnormal	○	○	○	X		X		
(9)	○	○	○	○	○			X		
10			○	○	○	X	X	X	X	
HIC (1)	Kept open	Kept open	X	X	X					
(2)			X	X	X					
(3)	Kept open	Kept open	X	X	X					
(4)			○	○	○	X	X	X		
(5)			○	○	○	X	X	X		
(6)			○	○	○	X	X	X		
(7)			○	○	○	X		X		
(8)			○	○	○	X		X		
(9)			○	○	○	X		X		
10			○	○	○	X		X		

Symptoms	Shutter speed		LED indication			Release	self	Bulb	B.C	Others ( )---with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
HIC ①	○	○	○	○	○					LED keeps lighting on MD-1 or winder side
⑫	No exposure	No exposure	○	○	○			No exposure		
⑬	Kept open	Kept open	X	X	X					
⑭	○	No exposure	○	○	○					
Flexible board ①			○	○	○	X	X	X		
(2)	*3	*3	○	○	○					Same as IC-2 ⑤
(3)			○	○	○	X	X	/		Same as HIC ⑦
(4)	*3	*3	○	○	○		X (Doesn't release)			M letter doesn't turn off
(5)	*3	*3	○	○	○		X (Doesn't release)			
(6)			X	X	X	X	X	X	X	
(7)	○	○	○	○	○					Doesn't work ▲ lock
(8)	○	○	○	○	○					(1.60 LED not blinking)
(9)			X	X	X	X	X	X	X	
⑩	High speed	○								Same as IC 1 ⑬
⑪		○	▲ lights up	▲ lights up	○	A : No M : Yes				Same as IC 1 ⑬
⑫	Kept open	Kept open	X	X	○					
⑬			○	○	○	X	/	X		
⑭	○	○	○	○	X					
⑮	○	○	○	○	○					Doesn't work ▲ lock
⑯	○	○	X	X	X					
⑰	○	○	X	X	○					Same as IC2 ⑥
⑱		○	▲ lights up	▲ lights up	○	A : No M : Yes				Same as IC2 ⑦
(A)	○	○	○	○	○				X	
(B)			X	X	X	X	X	X	X	
(C)	○	○	○	○	○					LED keeps lighting on MD-1 or winder side
(D)	○	No exposure	○	○	○					LED indication deflected
(E)	○	No exposure	○	○	○					LED indication deflected
(F)	○	No exposure	○	○	○					LED indication deflected
(G)			X	X	X	X	X	X		
(H)	○	○	○	○	X					

Symptoms	Shutter speed		LED indication			Release	self	Bulb	B.C	Others
Open part	Auto	Manual	Auto	Manual	M letter					( )----with strobe
Flexible board (I)	○	○ (or no exposure)	○	▲ lights up						
(J)	No exposure	○	○	○	○					Indication doesn't match between A and M mode
(K)	○	○	○	○	○					Doesn't work ▲ lock
(L)		○ (or no exposure)	▲ lights up	▲ lights up	○	A:No M:Yes				
(M)	No exposure	No exposure	○	○	○					Same as IC1 (5)
(N)	○	○	○	○	○					Doesn't work ▲ lock
(O)		○	▲ lights up	○	○	A:No M:Yes				
SW1	○	○	X	X	X					
SW1 $\pi$	○	○	○	○	○					LED keeps lighting
SW2			○	○	○	X	X	X		
SW2 $\pi$	○	○	○	○	○					*4
SW3	No exposure	No exposure	○	○	○					
SW3 $\pi$	Kept open	Kept open								
SW4			○	○	○	X	X	X		
SW4 $\pi$			○	○	○	X	X	X		
SW5	Bulb	Bulb	○	○	○					
SW5 $\pi$	○	○	○	○	○			X		
SW6	○	○	○	○	○		X			
SW6 $\pi$	○	○	○	○	○					Self is activated at all time
SW7			X	X	X	X	X			
SW7 $\pi$	○	○	○	○	○					
SW8-1A	No exposure	○	○	○	○					Same as (J)
SW8-1M	○	No exposure	○	○	○					Same as (F)
SW8-2A	○	○	○	○	○					Same as (K)
SW8-3A		○	▲ lights up	○	○	A:No M:Yes				Same as (O)
SW8-3M	○	No exposure	○	▲ lights up	○					Same as (I)
SW8-4A	○	○	○	○	○					Doesn't work ▲ lock

\*4: Shutter is operated with winding lever lifted back.

Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Others ( ) --- with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
SW8-3, 4A			▲ lights up			A.No M.Yes	▲ lock	▲ lock		
SW8-3, 4M		No exposure		▲ lights up	○					
SW12	○	○	○	○	○					Shutter is operated with PV. button depressed
SW12 $\pi\pi$			○	○	○	X	X	X		
SW21	○	○	○	○	○				X	
SW11 $\pi\pi$	○	○	○	○	○					B.C keeps lighting
R, RC	△	○	△	△	○					EE & indication linearly change greatly (only A)
R2	Kept open	○	X	X	○					
R4	△	○	△	△	○					
R5, D1	○	○	○	○	○					Same as IC3 ③
R6	○	○	○	○	○		X			
R7	○	○	○	○	○		(only no brinking)			
R8	○	○	○	○	○					Deflect indication linearity
R9	○	○	X	X	○					
R10	○	○	○	○	○				△	Deflect B.C voltage
R11	○	○	○	○	○					Same as ①
R12	○	○	○	○	○					Deflect shutter speed by temperature
R13, 14, 15	○	○	○	○	X					
R16	○	○	○	○	○					Doesn't operate MD-1 & winder
R17	○	○	○	○	○					Same as ②
R18	○	○	○	○	○					Possible wrong operation with MD-1 or winder
R19			○	○	○	X		X		
C1	Kept open	Kept open	○	○	○					
C2	No exposure	No exposure	○	○	○					
C3	△	△	○	○	○					Excessive variation
C4	○	○	○	○	○		X			
C5	*3	*3	○	○	○		X			

Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Others ( )---with strobe
	Auto	Manual	Auto	Manual	M letter					
Open part										
C6			○	○	○	X		X		
C7	High speed	High speed	○	○	○					Metering circuit oscillates
C8	○	○	○	○	○					SS & LED unstable when battery capacity low
C9	○	○	○	○	○					Possible wrong operation with MD-1 or window
D2	○	○	○	○	○					Brinking self LED by S2 on when ▲ lights up
TC	○	○	○	○	○					Same as R12
VR1	○	No exposure	○	○	○					
VR2	No exposure	○	○	○	○					Same as J
VR3		No exposure	▲ lights up	▲ lights up	○	A:No M:Yes				Same as L
VR4	No exposure	No exposure	○	○	○					
VR5	kept open	kept open	X	X	○					
TR1	○	○	○	○	○					Doesn't work ▲ lock
TR2, TR3	○	○	○	○	X					
TR4, TR5	○	○	○	○	○					No operation MD-1 & winder
ρ1 (Green)	kept open	○	X	X	○					
ρ1 π	Kept open	kept open	X	X	X					Short circuit when S1. on
ρ2 (Blue)	Kept open	○	X	X	○					
ρ2 π	Kept open	○	X	X	○					
ρ3 (White)	○	○	○	○	○					Doesn't change SS & LED by AV
ρ3 π		○	▲ lights up	▲ lights up	○	A:No M:Yes				
ρ4 (Pink)	Kept open	○	▼ lights up	▼ lights up	○					
ρ4 π	Kept open	○	▼ lights up	▼ lights up	○					
ρ5 (Yellow)	High speed	○	▲ lights up	▲ lights up	○	A:No M:Yes				
ρ5 π	Kept open	○	X	X	○					
ρ6 (Yellow)	○	○	○	○	○		X			
ρ6 π	○	○	○	○	○					All mode self function
ρ7 (Brown)	No exposure	No exposure	○	○	○			X		
ρ7 π	Kept open	Kept open	○	○	○			X		
ρ8 (Purple)	No exposure	No exposure	○	○	○					
ρ8 π	Kept open	Kept open	○	○	○					

Symptoms	Shutter speed		LED indication			Release	self	Bulb	B.C	Others
Open part	Auto	Manual	Auto	Manual	M letter					( )----with strobe
ø9(Orange)	○	○	○	○	○		{Only no lighting}			
ø9 m	○	○	○	○	○		{LED keeps lighting}			
ø10(Red)	No exposure	No exposure	○	○	○		{Only no lighting}	X	X	
ø10 m			X	X	X	X	X	X	X	Power source short circuit
ø11(Blue)	○	○	○	○	○	X(Remocon)				
ø11 m	○	○	○	○	○			X		
ø12(Grey)	○	○	○	○	○	X(Remocon)				
ø12 m	○	○	○	○	○					#4
ø13(Yellow)	○	○	○	○	○					Doesn't work ▲ lock
ø13 m	Kept open	Kept open	X	X	X					Power source short circuit
ø14(R. blue)	○	○	○	○	○					Shutter is operated with PV button depressed
ø14 m			○	○	○	X		X		
ø15(White)	○	○	○	○	○					Same as IC1⑧
ø15 m	○	○	○	○	○					Same as IC1⑨
ø16(Green)	○	○	○	○	○					{Strobe doesn't fire}
ø16 m	○	○	○	○	○					{Strobe doesn't fire}
ø17(Green)	○	○	○	○	○					{Strobe doesn't fire}
ø17 m	○	○	○	○	○					{Strobe doesn't fire}
ø18(Brown)			○	○	○	X		X		
ø18 m			○	○	○	X		X		
ø19(Blue)			○	○	○	X	X	X		
ø19 m			X	X	X	X	X	X		Power source short circuit
ø20(Red)			X	X	X	X	X	X	X	
ø20 m			X	X	X	X	X	X	X	Power source short circuit
ø21(Orange)			○	○	○	X		X		
ø21 m			○	○	○	X		X		Top early exhaustion battery
ø22(White)			○	○	○	X	X	X		
ø22 m			○	○	○	X	X	X		Short circuit with S4 on
ø23(Black)			X	X	X	X	X	X	X	

\*4 : Shutter is operated with winding lever sifted back.

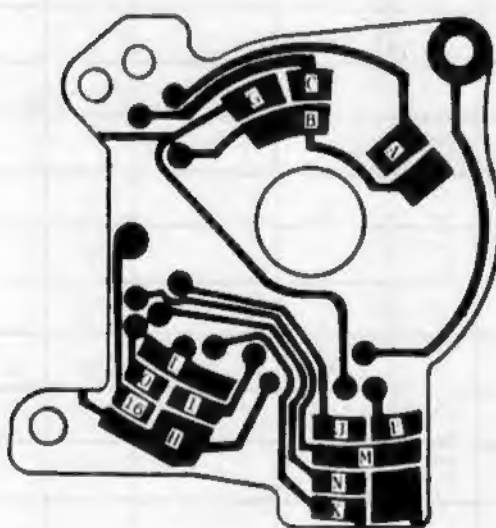
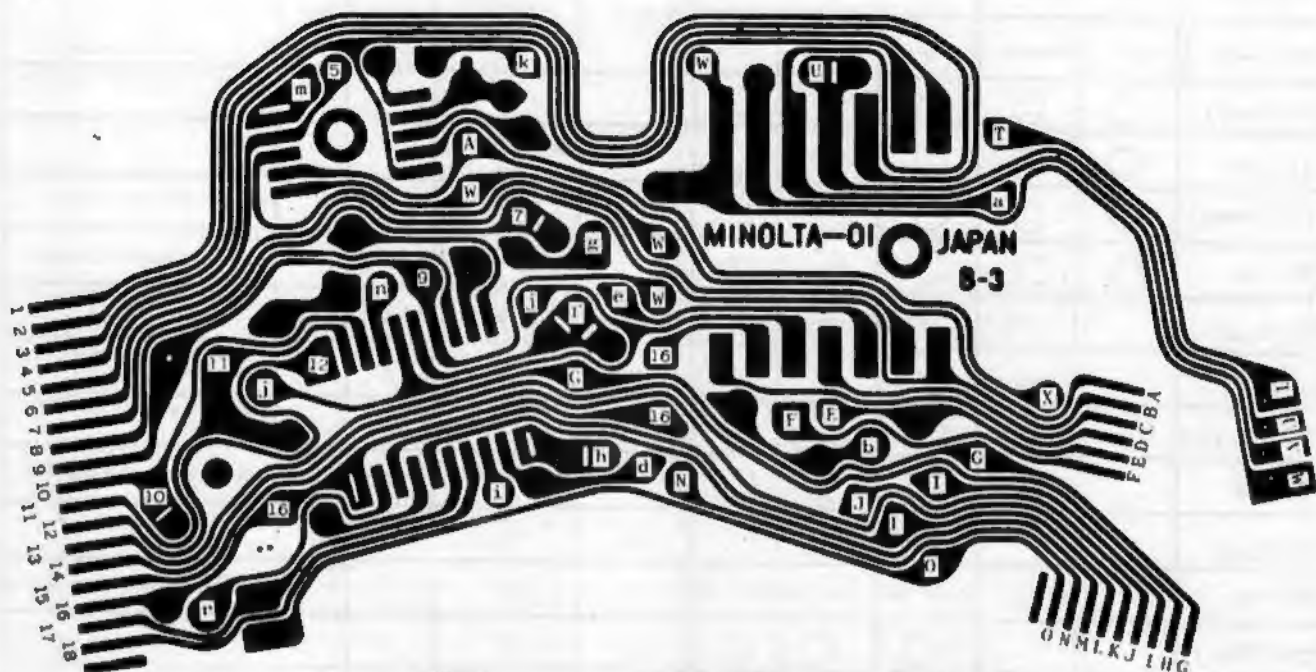
Symptoms	Shutter speed		LED indication			Release	Self	Bulb	B.C	Other
	Auto	Manual	Auto	Manual	M letter					
Open part										( )----with strobe
P24(Grey)	○	○	○	○	○					Doesn't shutter release by MD-1
P24 $\pi$	○	○	○	○	○	*4	*5			
P25(Green)	○	○	○	○	○					(Strobe doesn't fire)
P25 $\pi$	○	○	○	○	○					(Strobe doesn't charge)
P26(Red)			X	X	X	X	X	X	X	
P26 $\pi$			X	X	X	X	X	X	X	Power source short circuit
P27(Purple)	○	○	○	○	○					Doesn't work touch SW of MD-1
P27 $\pi$	○	○	○	○	○					LED keeps lighting
P28(Red)			○	○	○	X	X	X		
P28 $\pi$			X(S4 on)	X(S4 on)	X(S4 on)	X	X	X		Short circuit with S4 on
P29(Blue)			○	○	○	X	X	X		
P29 $\pi$			X	X	X	X	X	X		Power source short circuit
P30(White)	○	○	○	○	○		X			
P30 $\pi$	○	○	○	○	○		X			
P31(Blue)			○	○	○	X	X	X		
P31 $\pi$	○	○	○	○	○			X		
P32(Red)			X	X	X	X	X	X		
P32 $\pi$			X	X	X	X	X	X	X	Power source short circuit
P33(White)	○	○	○	○	○					Doesn't work lock
P33 $\pi$			○	○	○	X		X		
P34(R.blue)	○	○	○	○	○					*6
P34 $\pi$			○	○	○	X		X		
J1			X	X	X	X	X	X	X	
J2	Kept open	Kept open	X	X	X					
SL1	No exposure	No exposure	○	○	○			No exposure		
SL1 $\pi$	No exposure	No exposure	○	○	○			No exposure		
SL2			○	○	○	X		X		
SL2 $\pi$			○	○	○	X		X		

\*4 : Shutter is operated with winding lever is sifted back

\*5 : Self is started with winding lever is sifted back

\*6 : Possible shutter release with PV button is depressed





- A : S21
- B : Power source  $\oplus$  line
- C : S7 OFF
- F : S8-1(M)
- G : S7 ON
- H : S8-4(COM)
- I : S8-3(M)
- J : S8-1(A)
- K : S8-2(A)
- L : S8-3(COM)
- M : S8-1(COM)
- N : S8-2(COM)
- O : S8-3(A)
- 16 : S8-4(A)

